RADIO
WILL HELP YOU

This Book Tells How

YOU—No Matter Where You Live—May Sit in Comfort in Your Own Home and Enjoy to Your Heart's Content the Finest Music and Entertainment to be Found Anywhere in the United States

And With Less Expense than to Ride to a Public Hall or Theatre and Without Any Bother

LIBERTY MAIL ORDER HOUSE
106 Liberty St.,
NEW YORK

Our Friendly Method of Doing Business

Quick Shipment!

No Money in Advance!

Goods Shipped Subject to Examination before Acceptance!

We pay transportation in the U. S!

Prompt Answers to Letters!

Your Radio Questions Answered Free!

Intelligent Attention to Your Wants!

Real Satisfaction--the Kind you Expect from Friends--Positively Guaranteed!

Please see back part of book for particulars concerning our method of serving you.

LIBERTY MAIL ORDER HOUSE

THE RADIO HOUSE OF FRIENDLY SERVICE

106 Liberty Street

NEW YORK CITY

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You Are in the Midst of a Miraculous Thing!

EVERY day and every night radio waves carrying music and speech pass through the solid walls of your house—they enter your rooms—*they even pass through your very body* the same as though it did not exist!

Radio, the Marvel of Marvels!

RADIO waves penetrate everything, the rockiest mountains, the fiercest storms, the densest clouds, the ocean depths. By radio, communication is had with ships, from ship to shore, from shore to ship, from submarine to battleship, from airplane and dirigible to land and ship and sub-sea stations, from the deepest recesses of the mines to the manager's office above ground, from hundreds of cities to millions of homes on the hills, in the valleys, in the forests, on the plains—everywhere. The mind can hardly grasp what is done or is capable of being done by Radio, the marvel of marvels.

Think Of The Speed!

These waves dart through the air with the speed of lightning! The voice of the speaker—or the music of the player—performing in New York or Chicago or Davenport or Los Angeles—or at any of the more than 600 other broadcasting stations scattered throughout this country—is heard hundreds or thousands of miles distant before the same sounds traveling through the air are heard 20 feet away!

And the sounds are usually received in greater perfection and with more satisfaction than if you sat in an expensive seat a few rows from the stage!

And Think Of The Force!

Such propelling force to do this is required that it would take the combined vocal power of the 1,500,000,000 of people in the entire world—and 30 times as many more—to penetrate the air the same distance with their voices!

THROUGHOUT the country there are millions of users. The number is growing by leaps and bounds! Where last winter there was one set, this fall and winter there will be many.

LIBERTY MAIL ORDER HOUSE, 106 LIBERTY STREET, NEW YORK

Radio Really Is Wonderful, Isn't It?

Ever Hear A Moth?

FOR the broadcasting station to transmit the voice and the musical sounds with exactness, a microphone, or in other words, the device into which the performer speaks or plays, must be extremely sensitive. Recently one has been invented so sensitive that with its use **the flutter of a moth's wing can be heard by an auditorium audience.** Is it any wonder then, that every sound and every tone of instrumental music and the human voice may be transmitted perfectly?

One Billionth "Fly-power" In A Loop Aerial

At the last meeting of the American Chemical Society, reports "Science Service," Dr. W. R. Whitney of the General Electric Company described a calculation he had made of the amount of power picked up by a loop aerial one foot in diameter at Schenectady, New York, receiving radio impulses from San Francisco. The energy set free by a house fly climbing one inch up the wall was equal, the doctor said, to the energy the loop would receive in a continuous **period of 35 years!**

Imagine This!

Sometimes the telephone and radio are used together in such a way as to produce a startling effect. All people here and elsewhere who wanted to, heard through their radio sets, even those costing only a few dollars, the play-by-play reports of football games played in California, transmitted by telephone part of the way and broadcast the remainder! Imagine it! Hearing all about the progress of the game, the music of the bands, even the cheering—**3,000 miles away with the cheapest sets!**

This is only an illustration of what radio is doing for others—of what passes through the air **right where you live!**

Wonder of Wonders, You Say

Yes—and here is another Wonder—**the benefits are as free to you as the water you drink — all free, without money, cost, charge, expense.** All yours without even having to ask for them!

You can enjoy as many of the hundreds of hours monthly of music, speeches, sermons, stories, theatrical performances, reports of crops, markets, weather and sporting events, information, college courses and other instruction and entertainment as your time permits.

LOOK

What Comes to You if You Listen on the Radio:

First, let us ask you a question—have you ever heard—

President Coolidge?
Or John W. Davis?
Or Robt. M. La Follette?
Or David Lloyd-George?
Or Georges Clemenceau?
Or General Pershing?
Or William J. Bryan?
Or Henry Ford?
Or Secretary Mellon?
Or Admiral Sims?
Or Chauncey Depew?
Or Lord Mountbatten?
Or Evangeline Booth?
Or Thomas Lipton?
Or Anton Lang of Oberammergau?
Or the Rev. Dr. S. Parkes Cadman?
Or Mary Garden?
Or Charlie Chaplin?
Or Jackie Coogan?
Or Marion Davies?
Or Thomas Meighan?
Or Jack Dempsey?

Or a hundred other celebrated silver-tongued orators, singers, actors, entertainers and others?

Have you ever heard play-by-play reports of the big sporting events, the World Series' Baseball Games, the Princeton, Harvard, Yale, and Army and Navy Football Games, the big boxing matches, international horse races, national political conventions, acceptance speeches of Presidential and Vice-Presidential candidates and the like?

Have you ever heard Grand Opera or a popular play **every few days,** the country's best orchestras, the celebrated U. S. Marine Band, and hundreds upon hundreds of others of the best entertainment organizations?

And without having to pay anything for it? We repeat—and without having to pay anything for it?

We know what your answer is. Few persons in this entire nation have ever heard all we have mentioned except through radio—and millions of people on the farms, in the villages, the out-of-the-way places, the towns, cities, have heard most of these celebrities and other features.

What Radio Does For You—What You Get

$10.00 Worth For $1.00

Best Music and Entertainment FREE to You!

A D. K. Superior Receiving Set and a twist of the wrist—and the radio waves which every day and night dart through the air in your house silently **without your knowing it,** will manifest themselves in beautiful music and useful entertainment. Bands, orchestras, piano and violin solos, pipe organ recitals, concerts, the popular songs, the latest dances, talks by humorists, speeches by public men of America and Europe, bankers, business men, educators, film actors and actresses, authors, editors, poets, publishers, athletes, illustrators, theatrical productions, college courses, bedtime stories for children, reports of boxing matches and baseball and football games as they progress, market, crop, financial and weather reports—countless attractions—are yours to command—all brought without expense to you right to your own fireside!

Some prefer the fun. Some prefer the music. Some prefer the lectures. You—and all others in your home—want something on every program—and you may hear it as real as though you were in an expensive front row seat!

Needless, even if it were convenient to sit for hours in a hot, stuffy, uncomfortable opera house to hear our famous Grand Opera singers, when their entrancingly beautiful notes are broadcasted right into your comfortable home ready for you to hear with your D. K.

Benefits Are Many

The benefits of radio are so great and numerous it seems strange one should ever need to be urged to take advantage of them. It seems it should be as unnecessary to plead with one to spend the trifle needed for radio service as to urge him to go to school or have his children gain an education or attend helpful lectures or read good books or hear fine music or do anything else **obviously desirable.** It is as simple and apparent as that 2 and 2 make 4. In no way can you gain so much for so little.

Each dollar you spend will bring you more in entertainment and information and reports of interest and value than perhaps $100.00 spent in any other way.

If you don't believe this, consider what it would cost you in time and money for transportation, admission tickets and other expenses to be present at the performances given free during one day or one week at broadcasting stations within reach of our Receiving Sets in your home which you can have for less than the railway fare for perhaps even one attraction!

FIGURE IT OUT

How much good would $21.95 do you if you wanted to hear Mary Garden hundreds of miles away? Or to hear President Coolidge or William J. Bryan or others of the Nation's leaders speak frequently, as they do through radio?

Radio brings Grand Opera and a multitude of celebrities into your home, without such programs costing you a penny.

It would cost you $10.00, $25.00, $50.00 or possibly $100.00 a day to hear only a portion of what you can hear every day and evening in your own home free on the D. K. Superior Radio Receiving Set which will last for years with an upkeep expense of an average of only a few cents a week!

NOTE: We are mentioning this set merely as an example, as you will see later on in the book we offer a variety of assembled sets and unassembled sets as is this one.

You Can Hear and Enjoy Free Almost Anything You Like

You can sit in your own easy chair at home, and every day and night hear prominent speakers and fine musical selections, such as some persons all of their **lives have been longing to have a chance to hear.**

Many Pleasant Surprises For You

You will hear speakers, musicians and organizations you have never dreamed you should ever have a chance to hear. You will have many pleasant surprises.

It matters not how isolated may be your abode—in the forest, on a ranch in the great open spaces, on the hill or in the valley or if you live in the crowded city.

For every farm kitchen **is a box at the Opera!** Every little city apartment **is a Grand Stand Seat for a hundred events!**

It's Marvelous, What Only A Few Dollars Will Do

The means of reception need cost you **only a few dollars and the upkeep average only a few cents a week!** The entertainment is free! The radio broadcasting stations are repaid for their services, but not by the listeners.

All you need is merely the D. K. Superior Radio Receiving Set which comes to you in a form convenient for easy assembling and connecting and should be ready for use within a couple of hours or so after receipt!

Now, Friend—

When the genius of man has applied his skill to harness the invisible, mysterious and still unknown powers of the air which the Almighty Creator of the Universe in the beginning of time placed there for our use as soon as we were smart enough to discover them—why should you show lack of appreciation of such magnificent gifts of God and Man by not availing yourself of the formerly undreamed-of boon they afford?

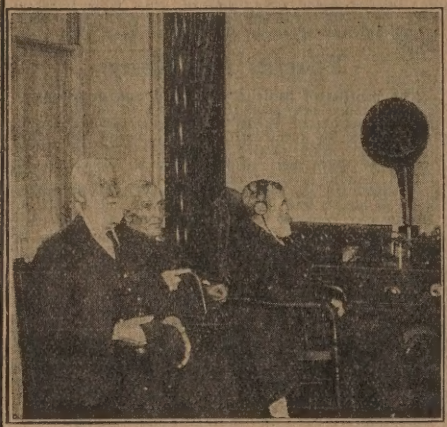
Does He Enjoy It?

"The old-time program, with the songs of other days. Ah—that was what got me. These old melodies, presented by the Radio Four; the violin solos, the orchestra, the tenor solo, 'When You and I Were Young, Maggie,' etc., just carried me away out of this one-horse town to scenes of other days, and was the most enjoyable thing I've heard in many a day."—Written to Station WGY Schenectady, N. Y., by a grateful "Broadcast Listener" at North Prairie, Wis.

Radio A Great Blessing To Everyone

One cannot picture or describe the joy which comes to all who use a Radio Set.

What a Godsend to the Aged and Blind!



THINK of the blessings it brings to those who are deprived of their sight! They cannot read, and maybe those close to them are too busy or wearied to entertain them. But for hours each day and evening they can listen to music and other diversion, without bother or attention from anyone else! **Think of the pleasure we can help you bring to their darkened lives! Think of the joy the sunlight of radio will bring to them!**

Sometimes the partially deaf can hear easily through the radio receiver. Many, more deaf, can hear if what is called an amplifier is added to the receiving set.

And the "Shut-Ins" or Sick—Any in Your Home?

Why not help speed the long, dragging weary hours by providing them with the D. K. Superior Radio Set and bring in the outside world of cheer end encouragement? Might not this hasten recovery? Or drive away pain? **Or at least lighten their burden and yours?**

Is There a Boy in Your Home?

Oh, Boy! How would you like to be doing this?

Will your boy have the chance to say as so many boys in other homes have done when the D. K. Superior Radio Set has brought the outside world right in to their ears, "Oh, Boy! What fun! To hear the play-by-play reports of the big boxing matches! The horse races! The baseball and football games! The **real music** from the big brass bands and orchestras and comedy from the theatres! The pleasant talks on **interesting** subjects! The world's doings—how great to hear it all! Gee! Isn't it great to have a radio set!" Remember, father, mother—when your boy is listening to the radio **he is in good company.** To some parents this means much.

Any Home-Worker Enduring Dull Hours of Dreary Toil?

Are the days monotonous while performing the same tasks over and over again—the sewing, the mending, the preparation of the food, the tedious, never-ending daily routine, when the worker might as well have the radio receiving phones to her ears to make the time pass quickly and at the same time to enrich her mind and broaden her horizon?

Radio Has A Multitude Of Uses

Is There A Young Lady In Your Home Who Would Enjoy Radio?

IS there one who would find her work in the kitchen more tolerable and pleasant with radio entertainment and instruction and fashion talks filling the room than if alone with only her thoughts of perhaps disagreeable tasks for company?

Girls become as crazy over radio as the boys. And why not? It is of universal interest, of interest to everyone at any point from the cradle to the grave. Girls enjoy the jazz music, the latest dances, the popular songs, the theatrical programs, the comedies and the more serious things on the program as much as the boys do, and, in addition, the style talks which to the boys is unbearable nonsense, but to the girls desiring to dress up to date and appear well, the talks are a source of delight.

Will your daughter have the chance to enjoy the radio talks and music and entertainment which perhaps her chums are enjoying? Will she be as well informed as others? Will she be ahead of her girl friends who have no radio receiver? Will she be given the chance to increase her education through radio? You know the answer.

Radio Should Be Of Greatest Interest To Women

Radio is used in the home. Women spend most of their time in the home. There is no reason why there should not be a radio set in every home, so during the long, tedious, weary hours of the day when so many women are engrossed in their daily toil and sometimes drudgery, the hours might be shortened or passed more quickly and their toil lightened and their minds improved by listening to music and entertainment coming free from the outside world through the air.

It Lightens Drudgery

There are many kinds of work which every woman does which she could do just as well with music and entertainment and enjoyment filling the house through the radio as without it.

And in addition to the lightening of her burden, radio provides the best possible way of keeping up to date in music, politics, general news and other departments of activity. Those who have a chance to listen through the radio are much better informed and their viewpoint is wider, and not only they but those with whom they come into contact are benefited by it. There surely is every reason for a family to acquire a radio set and profit from the features on its free programs.

Of Fascinating Interest To The Children And Grandma

Are there children in your home who want to get out and who sometimes get into mischief, as many live youngsters do, who might find it much pleasanter to remain at home to hear the latest popular songs and theater comedies and reports of sport events and other diversions? The pleasure the children get from the Bedtime Stories alone cannot be expressed in words; you have to see their countenances beam with joy! Many parents cannot find words to express their gratitude for radio.

Of a more serious, permanently useful nature are lectures by silver-tongued orators, and interesting sermons by the most magnetic clergymen, and talks by other big men which are broadcast from stations all over the country. School children who receive this helpful information and instruction on the subjects of greatest importance have a big advantage over those who do not. This knowledge will help them in their school work and in life now and as long as they live. Radio is a helpful influence—it helps you, parents, in the education and training of your children. Are your children to be less favored than others who have radio sets? Can you spend $21.95 better than for a D. K. Superior Radio Receiver?

Dance To Music Through The Loud Speaker

Are there young folks—your own, perhaps, and their chums—who would like to dance from music of a fine dance orchestra, perhaps a hundred or several hundred miles away? They can hear all of them without using phones on their ears—with the D. K. Superior Set, price $21.95, and a "Loud Speaker" consisting of a sound amplifier and horn, which together with all necessary accessories, will cost you less than a good phonograph. If you have a phonograph, you do not need a loud speaker or horn. Some users of the D. K. Superior Set with amplifier mentioned, living in this vicinity, have received music and speech from Havana, Cuba, 1,500 miles away and other distant points, in sufficient volume to fill a room. Would not your young folks enjoy having either the D. K. Superior Receiver alone or the larger outfit. Would it not be a good investment?

How About The Rest Of The Family?

At the close of the day of toil, is there a man in the family who would enjoy the restfulness of some music, the usefulness of market reports or benefits from other information, instruction or entertainment?

Usefulness Of Radio In Many Occupations

The Radio Blacksmith

C. A. Weaver of Bar Harbor, Maine, the village smithy, finds that it is MUCH EASIER to do his work to the accompaniment of radio music. He is shown here at work in his shop, while the radio keeps him entertainment.

Radio Ceases To Be A So-Called "Stunt"; Now Is A "Service"

Receiving Set Almost As Essential As Telephone—Prices Within Reach Of Masses

Radio has come within the range of the great masses of the people, according to one of the leading figures in the radio industry, quoted in the Crosby Weekly.

"This summer," he said, "there are many excellent sets for sale as low as $25 or $35, and radio has now become an essential home service—**almost as essential, for instance, as the telephone** in the house. No other device developed by man has offered a greater opportunity for service to the masses of people than radio. It is an instrument not only of entertainment but of self-education and culture.

"Radio has ceased to be a 'stunt'; it has now become a service. In the old days the zest of radio reception consisted largely in the fun of listing as many stations as possible. The radio enthusiast was more apt to say 'I got San Francisco last night, than to take pleasure in the fact that he heard a good concert from a nearby station, or a vivid description of a boxing match broadcast from his own city. Today radio is valued for what it gives. **The intelligent radio fan will not strive so much for distance.** He will determine the type and character of the program he wants and tune in on the nearest station that will bring him the entertainment or service that is nearest his heart."

Maybe you can work and listen at the same time—the way the blacksmith and the barber do.

There are many occupations in city, town and country in which this may be done—housework, some factory work and shopwork, painting, husking corn in the barn and even in the field, etc. There are many stores where the use of the radio would attract customers and increase sales. Doctors and dentists need it for their waiting room. These are only a few of the uses. *Do you* not need a radio set?

You—No Matter Where You Live —Can Enjoy Radio

Throughout this wide country radio furnishes weather bulletins, crop estimates, market reports, time signals, news of approaching storms, disseminates lectures, sermons, church music, concerts, jazz and dance music, public orations, college and other educational courses, bedtime stories, for the amusement and pleasure of all the millions of children and older folks of all ages, occupations, professions and phases of life, who are listening in daily and nightly and who **only two years ago** had not seen and did not even know what a radio receiving set was like!

Heretofore, to have such an abundance of enjoyment and benefit as comes free by radio has not been possible except to a few in the cities, **and then only at heavy expense and a lot of bother.**

But times have changed.

Once A Radio Fan, Always A Radio Fan

Dr. Lee De Forest, celebrated scientist and radio pioneer, says. "Probably not one in a hundred persons who go in for radio ever get tired of it. On the contrary, they are radio's biggest boosters. In five years I believe there will be 20,000,000 radio fans in the United States."

Have you farm produce or live stock for sale? Or do you buy?

Then you need a radio set to receive the market reports broadcast through the air every day, sometimes every few hours. It will soon pay for itself.

Will The Kiddies Have A Set For Christmas?

Radio is of interest and delight to all—from the little tots who can not understand the words but who like music, up to grandfather and grandmother. It is a constant source of diversion for all. Millions of sets are in use. Will there be one set in your home at Christmas?

But why wait? Why deprive your loved ones of the joy that they might have now?

Radio will interest and be enjoyed by everyone in your home.

Mr. Pearce W. Mack of the Acme Apparatus Co. Says The Following in "The Radio Dealer":

Anyone who has owned a radio set is lost without it. A Long Island man recently told me of moving into a newly built home, and of a delay of two or three weeks in beginning to operate the radio set to which he had been accustomed. Home didn't seem the same to him or his family. Spare time hung heavily on their hands; evenings seemed flat and dull. The whole family had begun to get on each other's nerves, when they realized that all that ailed them was they were lonesome for radio. The set was quickly put in commission and promptly restored the household to its normal charm and cheerfulness.

Radio has come to a place where it is almost as necessary as meat and drink. It not only pleases father, but mother, and the young people. There is a thrill for the latter in dancing to music of the best orchestras broadcast by radio, and, for many a housewife, the happiest moment in her busy day is toward the end of the afternoon when her work is done and she can sit down for half an hour before preparing dinner and listen to spirited music.

The year-around-use of radio will mark another important step in the development of an art which is so profoundly and wholesomely affecting American life.

The cheapest and most convenient way of gaining the benefits of high-class entertainment, amusement, instruction, and crop, market and weather reports, and pastime imaginable!

Household Helps—Radio An Aid In Keeping Abreast Of The Times

There are still many American homes where artistic interior decoration has continued to be conspicuous by its absence.

Toward correcting this situation, **Radio is undoubtedly contributing more today than any other single factor.** Not only has the new art brought thousands of homes into daily and intimate contact with the great outside world and its large and varied interests, but it has brought into homes **new ideas and additional knowledge of everyday household problems and interests** which are helping to make the average home a much **happier and more attractive** place in which to live.

Housewives all over the land not only have an opportunity to **hear the best of music** but they can keep in touch with the **best menus for family meals, dressmaking and millinery hints.** Through talks on home decorations and furnishings the housewife in the smallest village or on the remotest farm comes **in touch with current ideas in the metropolitan centers.**

The Radio brings her **up to date and reliable information** on color schemes, curtains, draperies, wallpaper, hangings, pictures and types of furniture.

Radio a Time Saver

Fifty miles away from a railroad and twelve miles back in the New Hampshire woods is one family which listens in nightly to WBH and appreciates its concerts and news. The people who live there have written a letter to the station expressing their appreciation of the invaluable aid which the programmes give them in learning the events of the day at once instead of waiting a week for the papers, as they used to.

Radio Of Great Benefit To The Farmer

WE devote considerable attention to the benefits of Radio to the farmer, for while Radio should be of more use to him in his somewhat isolated condition than to city people, there are as yet, according to population, fewer receiving sets on farms than in the cities and larger towns.

The chief reason for this is that heretofore the cost of a set to enable the farmer to receive from a distance has been prohibitive, except in some cases.

But now, manufacturers' prices are only a fraction of what they were two years or so ago, and you will see how **we have cut down their prices still farther.**

We offer a Radio set for every purpose and every pocketbook. You can get from us what you want or need and at a price to please you, and you will not be taking any risk in doing so, as we are "The Radio House of Friendly Service."

Market Reports By Radio

There is scarcely any field of activity or knowledge which is not covered in the radio programs. Our Government is taking a deep interest in the subject and provides market and weather reports and other reports and information of value to anyone, particularly those living in remote places and on farms.

A telephone is of great value, but there still are millions of farmers and country people and those in more populated districts who should have a telephone and do not have one. For probably much less than the rental charge for a telephone for a year, you may purchase our D. K. Superior Radio Receiver, only $21.95—everything complete, nothing more to buy, and ready to use after a couple hours in assembling. You and your family may have the pleasure and profit which comes from listening to your choice of a large number and variety of musical and other programs passing through the air around your home every day and night, as well as market reports affecting any products which you may be producing or in which you may be interested. The upkeep will average only a few cents a week if ordinary care be taken. This is excellent value for the money, but likely you will want one more proficient and at a higher price.

Storm Warnings

It may be of importance to you to know that a heavy storm is on its way to you. Advance knowledge might enable you to protect property which otherwise would be injured or damaged, causing you loss.

Latest Prices

Thousands upon thousands of country people and others have gained or saved money through receiving by radio information perhaps several times a day concerning the market and latest prices. If you have been watching the market for an advance to enable you to sell at the proper moment, it is of great importance to you to know at the time that the price has gone up. Immediately you can communicate with those in the market for your product and perhaps conclude a deal giving you more profit than had you been obliged to depend, as before, on newspaper or other reports, often several days or a week old.

With the use of Radio and wire telegraphy the Department of Agriculture has established the most complete and efficient market news service to farmers and other agricultural interests developed anywhere in the world. Farmers in practically any section of the country can now receive reports of agricultural prices and movements at the leading market centers the same day, and in many cases within a few hours after the news develops. Trained reporters in the markets collect the information and file it for immediate dissemination by telegraph and Radio.

Radio, The Farmer's Friend

It Brings Both Pleasure and Profit to Its Users

By CLIFFORD FARMER (in Successful Farming)

THE farmer who does not have a radio receiving set is missing the greatest blessing that has ever come to rural life. With an ordinary receiving set, within the reach of any farmer, news of the day, market reports, sporting events, church services, musical concerts, etc., may be brought right into the home by any member of the family, no matter where the farm is located. There is no longer such a thing as an isolated farmer. **Radio gives him a front seat in the best churches, at the theater and at the ball game—at the same time keeping him informed as to market changes just as they take place and to news items of importance.**

Radio broadcasting is in its infancy. The broadcasting of President Coolidge's speech to congress was a great stride forward—**while seated in my own farm home, I heard every word of it along with the cheering members of congress.** In a very short time every event of national importance may be "listened-in" on by farmers everywhere. **Universities are beginning to broadcast regular courses of study.** Radio is destined to become the greatest educational institution the world has ever known. The farmer who is holding back, wondering whether it is a success or not, or waiting for a better, cheaper set to be made **is missing half of his life.**

Two years with a receiving set has convinced me that a farmer cannot afford to be without one. Instead of tiring of it, it has become a necessity the same as a telephone. It would be impossible to tell of all the good things our radio receiver has brought us.

Two years ago I had never "listened-in" over a radio set. One day a friend invited me to come hear the radio, an invitation I gladly accepted. Naturally, I took my wife along. It was a cold night, clear as a whistle—an ideal night for a good reception. As we entered the house, the first thing that caught my eye was the horn of the loud speaker. I could not become interested in the conversation—I was so anxious to have the thing started. At last, after it seemed he would never take the hint, our host suggested to his youngest daughter that she might "see what she could pick up."

Read This—It Starts On Page 8

With eager, beating pulse, I watched her throw some switches, saw a light appear through a little screen in a long box and then wondered what she was doing as she turned some knobs. All at once a big voice boomed up (I almost jumped out of my chair) and in clear, brisk tones said: "WOC, Davenport, Iowa, in the state where the tall corn grows." I glanced around to see what effect it was having on my friend, our host. He was unconcernedly poking the fire! I wondered if this was a common occurrence. Then an orchestra struck up a lively tune and I listened in wonder—wondering if it were possible that this was coming hundreds of miles through space.

For three hours we listened. Chicago, New York, Dallas, Fort Worth, Denver, Atlanta, Louisville and a dozen other stations joined in to give us **the most wonderful evening of entertainment we had ever had.** When I glanced at my watch and saw that it was eleven o'clock, I could hardly believe it, so quickly had time slipped by. Reluctantly, we bade the neighbors good night. As we drove home, my wife cuddled over against me and said: "Wasn't that wonderful! Let's get a radio outfit, too."

"fiddlin' "; plays and theater programs; weather forecasts that have often been the direct cause of our saving young stock and fruit; **market reports that have been a great help in selling eggs, cream, and livestock at the right time and in buying feed—the set has paid for itself over and over in this way.** We have heard distant stations like Havana, Cuba, Mexico City, Canadian stations and stations on the Atlantic and Pacific coasts. There is no limit to distance under favorable conditions. It all depends upon the strength of the sending station, the receiving set, and atmospheric conditions.

There is no danger from lightning—in fact, a house is safer with a well-installed radio set than without. The aerial serves as a lightning rod and will carry the lightning to the ground in case the house is struck. Because distant lightning can be heard so clearly over radio, has caused many to fear to have a set in the house. Start your car under the antenna and listen in. You'll think a storm is coming.

In selecting the receiver, the farmer should bear in mind that he will want to hear all that is going on—a set with at least two or three tubes will best

Ready for market but is the market ready for them? The radio is keeping thousands of farmers posted

We got one all right. * * * I clamped on the ear phones and, following directions as best I remembered them, turned on the juice, slipped the plug in place and listened. Then I turned the tuner dial just a very little and a woman, at the top of her voice, nearly burst my ear-drums.

"I've got 'em!" I said, and quickly plugged in the loud speaker.

My wife was laughing at me.

"What's the matter?"

"You yelled loud enough to be heard a mile," she said, and I realized that, with the headset over my ears, I might have spoken somewhat above a whisper. Well, we stayed up until everybody in the Middle West signed off and then listened to the stations on the Pacific Coast until they all quit for the night.

Since then, scarcely a day or night has passed without the set being in operation. **It has given us more entertainment, more information and more fun than anything we ever owned.** The only fault to find with it is that it has made "stay-at-homes" of us. But I am sure the car has enjoyed the rest—I know the gasoline bill has decreased.

"What have you heard over your set?" someone asked the other day. It would take too long to tell—it would be impossible to tell all. **But some of the things that have given us the most enjoyment have been:** church services, both from big churches and sermons from broadcasting stations—have "listened-in" on choirs of 1,500; Coolidge's speech to congress; speeches by Woodrow Wilson, David Lloyd George, William Jennings Bryan, General Pershing, and countless others; the World Series (baseball), every game of which we received play by play just as it took place; the Republican National Convention at Cleveland and the Democratic Convention held in New York City; music of every kind from grand opera to

do this. Small, one-tube sets are far better than none, but if one is selected be sure additional amplification can be added later—you are sure to want it. Sets are now on the market that use dry batteries altogether. Storage batteries must be recharged at intervals. If you have electricity in your home, you can easily do this yourself. New tubes also are on the market that use very little current, making batteries a very slight item for upkeep.

I would always advise the farmer to get a loud speaker. Present types amplify clearly and satisfactorily. Loud speakers may now be bought that do not use extra current and therefore are no more expensive to operate than head phones. **The whole family will want to listen, neighbors will be dropping in and, with a loud speaker, a program or market report may be heard while other work is being done.** Even lawn parties may be given and music furnished by the use of the loud speaker.

When I paid ten dollars to install my set, I was throwing money away. But I knew nothing about it and thought I could not do it. Any farmer who will use a little care to follow directions that come with the set, can do the installing without experienced help.

During these times on the farm, even a suggestion of more expense is met with hostility by the average farmer. But, can we afford to crawl into our shells and growl? Better keep up with the times and know what the rest of the world is doing—that will come a lot nearer getting us where we belong. The radio will do a lot toward taking that long, sour look off the present-day farmer's face; it will keep the youngsters at home of nights, it will give the whole family entertainment and amusement, and pay for itself in a few months if use is made of the market and weather reports. **No farmer—unless on the verge of bankruptcy—can afford to do without radio. It's the farmer's friend.**

When The Farmer Listens In—What He Is Getting From The Air

By BERNARD E. DIER (in Successful Farming)

MORE than 250,000 farm families are now listening in and the list is growing at a phenomenal speed. Last fall the United States Department of Agriculture made a survey of the situation and found on September 1st (1923) there were 145,000 sets owned on farms. Since that time there have been added at least 100,000 sets more.

Then the department also learned that the manufactured sets had cost on the average about $172 and the home-made sets about $83, while crystal sets cost about $11. **Nearly four-fifths of the sets were used in receiving weather and market reports** and, of course, they were all used for entertainment.

A station in the Department of Agriculture from which market reports are broadcast several times daily

A famous statistician has estimated that the American public will spend for radio and equipment in 1924 about $300,000,000. Although there are no accurate statistics available on the total number of sets in use at present it is estimated that the total is not far from 4,000,000. **Radio progress seems to be measured by minutes.**

Despite this rapid growth, however, sets a year or two old are still giving great satisfaction and the owners have enjoyed the pleasure of radio reception during that period. Some have added new attachments; some have discarded their "first loves" and others who started with small crystal sets have rapidly graduated.

A Little Humor

Radio has not only developed a new language but it offers a great temptation to use it to put one over on your neighbor radio fan. I recently heard two of these radio bugs bragging about their sets.

"I've just been listening to General Pershing talk from Schenectady," said Senseman.

"That's nothing," retorted Brown. "You stick around here about ten minutes and we will listen in on the private affairs of the King of Denmark."

However, Senseman was a long distance getter and he came back with:

"My wife asked me to help with the dishes. I paid no attention and soon got China right in the head phones."

Yes, radio does develop the imagination. Earl C. Arehart of South Dakota, says:

"I sit in my old but comfortable chair and listen in on any station I choose; I can hear the latest market and advance weather reports; the world's finest musical talent and lectures, and when Martha at last decides to retire, I give the dial a turn and can almost see that snappy jazz orchestra from Fort Worth and Kansas City. I can almost see the musicians finger their instruments and that makes me forget the rest of the world and the lowering markets in grain and hogs."

Evidently Mrs. Martha Arehart would rather listen to sermons with Mrs. Wm. T. Treleven of Fond du Lac, Wisconsin, than visualize jazz dances with Earl. Mrs. Treleven writes: "We are quite reconciled when not able to get to church four miles away for we can sit in our cheerful living room and listen to Dr. Thannon's service at Central Church, Chicago. There is also a Presbyterian minister in Pittsburgh that always is a joy to hear. **One of our greatest pleasures is gathering in neighbors and friends to listen with us."**

Radio Set Cost Nothing

Radio on the farm also has its utilitarian side. Aurel R. Beets of Missouri, says: "We were buying corn and feeding 104 hogs this summer and the market reports received **saved us our entire cost of the radio.** Weather reports are of great value. The cold snaps last winter caught us with the hen house windows open. **They won't do it this year.** After the cold snap when the hens' combs were frozen the egg production dropped from one hundred to two a day. **Would rather have our telephone taken out than do without our radio."**

Rise Netted Him $1,200.00 More Through Radio

Frank L. Purcell of Montana, says: "When my wool was sacked and ready for market I wrote a telegram to a Boston commission firm saying I would sell my wool at today's prices. Before sending it I couldn't resist a few moments' entertainment with my radio set. I heard the market quotations saying wool was very firm and higher prices expected. I held that telegram overnight and sold the next day at a two cents per pound rise, which realized about $1,200.

"The loop in connection with radio sets on the herders' camp wagons could not be improved for they have to move to fresh feeding ground every few days and the set is there ready for the daily news and concerts as soon as the herder has finished his evening meal. The herders would rather listen in than loaf at the reservation store."

Worth Reading—Every Word—Begins On Page 10

Make 50c to $1.00 Per Sack From Radio Reports

"I grow fancy, select potatoes," says Howard C. Whitehead of New Jersey. "During the past season I was in constant contact with the weather broadcast reports which guided me entirely in my planting, cultivation and harvesting so that the weather has never caught me once unprepared. More important, I was twice daily in touch with the various New York, Newark, Philadelphia, Washington, Baltimore and Pittsburgh markets and was able to select my market which netted me from 50 cents to $1 per sack of 150 pounds more than other growers received.

"Purely as a business proposition a good radio outfit is an absolute necessary part of any up-to-date farm. It also keeps the women and kiddies in touch with the world, gives them diversion and sends them to bed happier."

When Isolation Is Complete

During blizzards and sleet storms radio is playing a very important role. During the most severe storm experienced in Chicago last winter the telephone and telegraph service was so crippled that the daily papers got most of their news by radio. That night I heard a station in Pittsburgh ask repeatedly for information regarding the conditions along a certain section of railroad concerning which the railway company could get no reports by wire.

Radio Saved Brother's Life

E. G. Gilmore of Kansas was listening in one night and heard the weather man forecast a blizzard. His brother was very sick so he decided to go for the doctor immediately before the roads became almost impassable. The doctor performed an operation and told them that twenty-four hours more and it would have been too late. The blizzard arrived as forecast, so Mr. Gilmore says the radio saved his brother's life.

Value Of Radio To Farmers Urged In Prize Letter

A PRIZE recently was offered by "The Nebraska Farmer," published at Lincoln, Neb., for **the most interesting letter on the benefits derived by the farmer from radio.** The prize was awarded to Methodius B. Bartek of Saunders County, Neb., whose letter follows:

"When it was remarked, two or three years ago, that it was possible to detect sound waves from great distances without a conductor of any sort, people were inclined to be incredulous. But now we do not have to go further than perhaps our neighbor's house to see for ourselves that radio is not merely a fad, but a reality and more or less of a necessity in the case of the farmer and his family. I stress its value to the farmer because he is somewhat more removed from the social and recreational advantages usually associated with city life.

"Among the things that radio offers to the farmer are **help in operating his farm more profitably and** educational and social advantages. If a farmer is interested in the markets he can simply **tune in at noon and get the grain, livestock and produce prices** —whether there has been a rise or decline in same, and what the prospects are for the next day as to receipts and consumers' demand, thus helping him in formulating his own judgment as to the advisability of selling or holding for a rise.

"I have found the **weather reports of inestimable value** during hay-making and other times when the farmer depends on weather conditions. At some time or other some of us are interested in traveling more or less, and to know the condition of the main roads comes in handy.

"In the evening, after the chores have been finished and supper is over, it surely is great to be able to 'listen in' on your choice of programs, be it a lecture or a good instrumental or vocal selections. One of the series of talks which I greatly appreciated was that given by Dr. Condra, of Lincoln, over one of the Nebraska stations, on the **resources and beauties of our own great commonwealth.** The musical programs by master artists are always at the fingertips of the farm family with a receiving set, and cannot be easily duplicated because of the expense and prestige necessary to secure this class of talent.

"Many farmers object to buying a receiving set because of the cost, but this is a **trivial matter in comparison with the advantages of radio as a home** entertainer. To the man who has trouble keeping his boys on the farm I say **buy them a radio set.**"

Another Broadcast Review—See What Mr. George Says:

Editor, RADIO NEWS:

We live in a smallish town, only 87 miles from Chicago, but nevertheless it might as well be 1,000 so far as that goes. The kiddies listen to "Uncle Bob" from KYW, and when the radio weather is good, to "Dream Daddy" WDAR, in fact they both belong to the Jack and Jill Club. Then we usually see what WOC has to offer, going from there to that incomparable voice of the "Atelanta Journal, Atelanta, Gawgia." Wouldn't miss that for anything.

And who can pass us KDKA, or WBZ and that Trio? This season we have taken in President Coolidge's Washington's Birthday talk, grand opera, William Jennings Bryan, David Lloyd George (from three different stations in the United States), to say nothing of the banquets. shows organ recitals and popular programs. We enjoyed immensely "Abie's Irish Rose" as broadcast by KYW recently. As soon as the roads are good we are going in to see the play.

Also, we are regular Friday night visitors to the Hoot Owls at KGW; we took in the concert by the Fairbanks Trio assisted by KHJ's canaries. I heard Honolulu once this winter. The Skinner organ recitals are always good. The Fort Worth Star Telegram is another very good one to tune in. WOAI, the "Winter Playground," has had some interesting programs, as has WLAG.

We usually poke around to see what WHAS has, and never fail to listen to PWX, and, by the way, that clock ticking between numbers is a fine thing, as with the neutrodyne using the long aerial I am never sure whether I have PWX or WHAS, as they are both on the same wave-length, but the clock tick sets us right always. The "Nighthawks" are always interesting, and the midnight revues of KYW are something worth staying up to hear.

WTAS has some mighty entertaining programs and they may have a chair by our fireside any time, because on Sunday afternoons they are the only ones on the air who are not either preaching or putting on something that we do not care to listen to, that is, all the afternoon.

We like a good sermon, and Rev. Shannon of the Central Church, Chicago, puts out some wonderful talks. The evening club from Orchestra Hall is also very interesting. Both of these features are put out through KYW.

Taking it all in all, we have listened to about every 500-watt station in the United States, and what we have heard and enjoyed coming out of that little box with a bunch of light bulbs in it **money couldn't buy.**—W. R. GEORGE, DIXON, ILL.

Who Pays For The Entertainment You Get Free?

Broadcasting stations are prohibited by the government which licenses them, from doing any direct advertising while broadcasting, but they are permitted to broadcast musical programs and other features supplied by hotels, orchestras, business houses and the like, and before and after the performance announce that the feature or program is given through the courtesy of so-and-so, giving the name of the provider thereof. In this way the name of the hotel, department store, theatre, orchestra, college, university or business house is spoken into the ears of hundreds of thousands and even millions, every day in many cases. Those providing and paying for such enteratinment find that the good will developed among the radio listeners is worth what it costs them to provide and pay for the programs and for the broadcasting.

When thousands of concerns or individuals throughout the United States are willing to supply free to you the best music and other entertainment, instruction, information, and the like, **is it expecting too much of you to spend the trivial sum of $21.95** for the means by which to receive it? This is all our D. K. Superior Set will cost you. Such a small sum represents no more than the cost of several tickets to a show or lecture or baseball or football game or other diversions.

Some Time You Will Own a Radio Set

"Listening In" Has Become the National Farm Pastime

By O. M. KILE in Farm Life

SOONER or later you will own a radio receiving set of one kind or another. You simply can't help yourself. It's like the chickenpox or the mumps. You may be exposed a number of times without having it "take," but in the end the radio bug will get you.

I held out for nearly a year against constant exposure to infection from my neighbors. I thought it just a fad that didn't amount to much and would soon blow over. Then, too, I had listened a number of times to one of the earlier machines that was improperly hooked up or had a serious ailment of some sort.

Then I listened to a real machine and later to two or three good home-assembled instruments—and like the rest, I fell. I don't know how the family would put in the evenings now without the radio program. Particularly the old folks who do not get about much.

Nearly 300,000 farm families have already purchased or constructed radio sets, according to estimates made by Mr. John C. Gilbert of the radio division of the United States Department of Agriculture. **And the number is jumping rapidly every day.**

"Radio has brought a real revolution to the farm," says W. H. Brokaw, director of agricultural extension for the state of Nebraska. **"I know how it has worked out in our own case. First my boy made a small crystal set according to very simple specifications. It worked very well, indeed. It was only recommended for a radius of twenty-five or thirty miles but we had no trouble in reaching everything within 300 miles. But we wanted to reach out still further, so we bought the parts for a one-tube set. This gives us a wide range.**

In August, 1921, There Were Three Radio Stations Broadcasting Market Reports.

Radio Good Investment

"But it was money well spent," added Mr. Brokaw. **"It keeps the folks at home in the evenings, and that is a big job these days when the roads are inviting and the flivver stands in the barn. I figure the saving on gasoline and tires has paid for our set several times over."**

That has been the story in thousands of cases. First a simple little home-made crystal set costing anywhere from a dollar up. A taste of the music from the air and then a larger and more complete set. **Any of the standard sets advertised can scarcely fail to please. But the ingenious boy seems to prefer to make his own.** At any rate the best surveys covering this point indicate that about eighty per cent of the business in the radio field is in the sale of parts which are then assembled in accordance with diagrams and directions furnished. Labor of assembling appears to make up about fifty per cent of the cost of a radio set. Therefore **home assembling effects a considerable saving.** However, for really high-class results, the standard complete machines give greatest satisfaction.

In January, 1924, There Were More Than Sixty Scattered Over the Country as Shown By the Maps Above.

How Do Farmers Use Radio

Answers to that question are legion. Mostly they use it just as other folks do—for entertainment and information. Music predominates but there are always interesting and instructive lectures on timely topics. But there are special reasons why **radio is a Godsend to the farmer.** Here is the heartfelt testimony of a farm woman of the Northwest:

"I wonder if one living in the city or a thickly settled farming community can realize what radio means out on the wind-swept prairies, far from town and neighbors. My husband is a rancher in western South Dakota. He is prospering so that we have a good home and a furnace and other modern conveniences. Our ranch is twenty miles from town and two miles from the nearest neighbor. Here we must stay, as it is a business we understand and, at best, we could not do so well financially anywhere else.

"The summers are not so bad as we have an automobile, and miles make little difference to a swift-running car. **But when the winter's cold and storms have shut us in, it has been lonely beyond description.** I have sometimes felt that, even if we lost everything by moving, I could not stay here another winter.

"But since installing our radio set the loneliness is done and we seem to be living at the center of the world. What matter the miles of silent prairie covered with ice and snow when each night radio brings the world to our door?

"Great orators speak to us. Famous singers sing for us. Bands and orchestras and entertainers are ours without ticket or fee. And if any program becomes tiresome we have the advantage over the theatre-goer that we can leave without disturbing the audience and attend another program perhaps 1,000 miles farther on.

"When Ex-President Roosevelt died his funeral was over before the news had come to us over roads blocked with deep drifts. We got the news of the death of President Harding before the morning newspapers were on the press.

"We look over the program of coming events furnished by the principal broadcasting stations and discuss what program we will attend just as the city dweller looks over the theatre advertisements in the daily papers. **But we do not have to buy a ticket or leave our home.**

"At the market hour we get the stock markets. At the weather hour **we are warned of approaching storms which are always so dangerous to the ranches.** Important general news comes in regularly. We are no longer isolated.

"Radio may not mean so much to every one, but to our home it has opened up a new life, and we feel the throbbing life of the world."

The agricultural extension services in the various states and the farm organizations are waking up to the fact that here is a powerful new influence on farm life. So complex has our civilization become in later years that we have been compelled to get farther and farther away from the democratic idea in government and do our voting and thinking more and more by proxy. This is no better for the health of a government than it is for a farm organization. It does not work well with either. Whether or not radio can restore the personal touch to government and win back some of the interest and spirit of a true democracy, I cannot foretell. But it does promise to make this idea really workable.

"Get Into The Swim"

So whether you are thinking of setting up a simple dollar coil and crystal set or getting a machine that will comb the air from coast to coast, get into the swim.

See Pages 25 to 43

Interested In Sports? This Page Is For You!

Get Ready For Baseball Games

(From N. Y. Sun and Evening Mail, Sept. 6, 1924)

Plans are already being laid for the broadcasting of the world's baseball series. Preliminary reports have indicated that the audience of fans that will "attend" the contests by radio will be greater by many millions this year than ever before, and broadcasters are determined to make a corresponding advance in the quality of their service.

Inquiries made by the Radio Apparatus Section of the Associated Manufacturers of Electrical Supplies show that only "star reporters of the air" will be chosen to describe the banner sporting event of the year. Exceptional qualifications and a highly specialized technique, experience has shown, are required for the reporting of baseball games, and capable studio announcers have frequently found themselves at a loss when confronted with the problems of the diamond.

"Few people realize the extent to which practice has developed the technique of describing a world's series baseball game to the radio audience," says one air reporter of national reputation. "The announcer must report the moves in the game the instant they occur, even to the newspaper man writes his play-by-play description for the final sporting editions.

"The crowd in the stands is constantly competing with the radio reporter for the microphone, which means that if, in his anxiety to give a full description of everything that goes on, his report is not completed simultaneously with the completion of the play, the spectators will break in with cheers or booing. The radio audience, ignorant as yet as to whether a hit has been made or a man put out, will be confused by the clamor from the field. The effect is like applause in the wrong place at a theatre or during a speech.

"The method of the air reporter is to tell every move in the game in brief staccato phrases," continued the announcer. "The expert newspaper writer endeavors in his description to paint a picture of a play; the radio man by giving the moves in consecutive order leaves the picture to the imagination of his audience. For example, the description of a double play by radio might be broadcast as follows:—

" 'Pitcher winding up.
" 'Batter crouches at plate.
" 'Pitcher throws ball.
" 'Batter misses it.
" 'Fast grounder between short and third.
" 'Groh's got it; Williams at third.
" 'Throws to first; batter out.
" 'Double play retires the side.'

"But these are the mere mechanics of radio reporting. There is art as well as skill in it. The crowd at the field supplies the dramatic background for the spoken description of the plays. There are times when the yells from the spectators will add the vital 'punch' to the words of the announcer; at other times they may be meaningless or confusing. When to give the crowd the microphone and when to keep it out are things which every good reporter knows instinctively.

"Most important, however, is the ability of the announcer to imagine himself one of the radio listeners and to describe the game as the far-off baseball fan would see it were he at the field."

How Are Ball Games Broadcast?

Mr. L. M. Hainer, in "Radio Stories," quotes Major J. Andrew White, who broadcasts so successfully and entertainingly the 1923 World Series (and scores of other important sporting events before and since), as follows:

"Well, it takes fast thinking sometimes. I sit just behind and a little to the left of the batter, so I can see them when they come over. Sometimes when I call a decision, the umpire doesn't agree with me. Then I have to tell the fans. But I always call their attention to the yells of the crowd and tell them a lot of the customers agree with me. Beside me I have a man with a board laid out like a diamond. On it he has movable pins bearing the names of the players. These he moves as the plays progress, so that a glance at the board gives me the position and name of every man. However, I seldom have to refer to it more than two or theee times in a game.

"Of course, when several men are in a play I I have to talk fast and think straight. For instance, the bases are full and two men are out. The fielders are playing in for a short hit. The runners are taking as long a lead as they dare, keeping constantly on the move and worrying the basemen. The pitcher unwinds with a snap. There is a crack of a bat and the bleachers go mad as the drive goes over the head of the shortstop. In an instant the runners are tearing around the bags. The left fielder comes in, scoops the ball and whips it to the plate. The catcher has swept his mask from his head and is set for the throw. There is a cloud of dust as the runner hits the ground and slides. The sweat-begrimed catcher puts the ball on him with a thud and with a sweep of his arm the umpire at once calls him—out.

"During the excitement I must keep my head and remember that my voice must carry the details to thousands of listeners. First I must tell them of the hit and the men who are circling the bases. Then I must put these players out of my mind and follow the ball, describing the way it is fielded, the man sliding for home and the play of the catcher. All this must be done vividly so the radio fan can get the picture, to the accompaniment of the wild turmoil let loose by the spectators."

Don't Miss Big Football Games!

No need for you to miss the fun—hear the play-by-play reports of games with the big teams—the Army, the Navy, Yale, Harvard, Princeton, W. & J., U. of P., etc., over the radio.

Listening In On The Radio — By One-Bulb Bill

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I want to try and impress the man who boasts a family that he is depriving himself, his offspring and his good wife of a vast amount of pleasure and instruction every day that he puts off the buying of a radio set.

The programs of last Monday will serve sufficiently to demonstrate my point. On this day there was broadcast over the radio a pleasant friendly chat by Presidential Candidate John W. Davis; another aspiring candidate, Robert M. La Follette, expounded his theories to all who cared to know at first hand why the gentleman from Wisconsin has entered the race.

Along about 3:30 in the afternoon, while 60,000 persons were sweltering at Belmont Park, those of us who owned radio sets sat relaxed and comfortable in our own homes and listened to J. Andrew White as he vividly pictured the scenes attending the great international sporting event and thrilled us to the very quick as he told of the unsuccessful struggle of the great French race horse Epinard in his attempt to beat an American thoroughbred.

I doubt if the Prince of Wales, who occupied a place in the Stewards' stand during this race, could have been more excited than those in the radio audience.

During the afternoon and evening the program was interspersed with the singing of popular songs by Wright and Bessinger; the West 'End Ladies' Trio rendered excellent music and there was never an hour when one could not tune in and listen to any one of a half dozen of the best jazz bands and orchestras playing in or about New York, and a band concert in Central Park gave a true holiday note.

To cap the climax and make this day of wonderful entertainment complete there came to us in the evening a complete musical comedy, interesting because of the number of talented principals, in this case of further interest because "The Dream Girl" was written by Victor Herbert just prior to his untimely death.

I submit that there must have been in that feast of entertainment something that would appeal to any human being. If you listened in as I did, you had a lot of sport and amusement. If you are one of these unfortunates who still insist that the radio has no place in your home, think it over, cease being a selfish old crab and join the big parade.

The Business Of Radio—Interesting Facts

NOTE.—Those who take pride in keeping in advance of others will find much of interest in this and the other matter in the first part of this catalog.—LIBERTY MAIL ORDER HOUSE.

RADIO IS NOW one of our major industries, with an impressive present and a hopeful future, even if its past is measured by only a few years. In value of products it stands thirty-fourth among our businesses, ranking well with such others as motor vehicles, leather and ship-building, and taking rank ahead of railroad-car construction. The editor of "Radio News" (New York, July), introducing an article on the subject by **Roger W. Babson**, calls it "a truly established part of the economic scheme—**a part and parcel of the lives of the inhabitants of the United States with as definite a place in their scheme of things as the very shoes they wear.**" Mr. Babson begins by remarking that to those who think that radio is still a fad, adopted only by a small minority of the public who are experimentally inclined, some figures dealing with the financial proportions of the industry at present may correct that impression. He goes on:

"It has been my experience that **very few people realize just how important, from a business standpoint, the radio industry has become.** Just because an industry is comparatively new is not a reason for assuming that it is unimportant. The radio industry is new, but it has grown so rapidly in the last two or three years that it compares very favorably with **many of the important long-established industries.**

"On the basis of figures for the year 1923 it is probable that the American people will spend approximately $350,000,000 for radio equipment during the present year. A conservative estimate of the business in vacuum tubes alone is about $50,000,000. At least five times as much, or $250,000,000, will be spent for radio sets and parts. The sales of batteries, both dry cell and storage batteries, will very likely amount to over $45,000,000. Miscellaneous equipment such as battery chargers, loud speakers and specialties may easily account for $50,000,000 more.

"One of the best proofs that radio is one of the leading industries, and that it is well established, is a comparison of the money expended by the general public through the channels of the radio dealer with the sums spent in the same way for sporting goods and cameras. **More than double the amount of money goes into the retailer's hands for radio than reaches him through photographic supplies and sporting goods.** No one will deny that the latter two industries are well and firmly established. They are founded on a sales idea that is less stable than radio. **Radio is universal in scope, its appeal is to all,** whereas the other two industries mentioned are not. Is radio not much more well bottomed than either of them? It is interesting to see how the radio industry compares in dollars and cents with other large industries. Available figures on sporting goods, cameras, etc., show a value of about $185,000,000 annually. **Sales of radio equipment are running nearly twice as large as all kinds of sporting goods.**

"The value of the radio business is nearly twice as great as that of the carpet and rug business. For every dollar spent on furniture, thirty-three cents is spent on radio. For every dollar spent for musical instruments, twenty-five cents is spent for radio. For every dollar spent for boots and shoes, twenty-five cents is spent for radio. For every dollar spent for musical instruments of all kinds, including phonographs, pianos, organs, etc., seventy-five cents is spent for radio. The value of radio business amounts to nearly three-fourths of the jewelry business as a whole, including clocks, watches and novelties.

Radio Facts

In an address recently delivered before the East Side Y. M. C. A. Radio School, New York City, Pierre Boucheron, advertising manager of the Radio Corporation of America quoted many interesting facts, of which the following is a summary:

3,000,000 radio receiving sets in this country.

10,000,000 listeners.

250,000 persons directly or indirectly connected with the industry.

1,000 newspapers which carry radio programs and radio news columns.

3,000 country weeklies with radio sections.

30 radio periodicals.

50 magazines carrying radio sections.

250 popular and technical books.

There has been a great increase since this information was compiled.

No Let-Up Due The Radio—'Cause

1—**There are 551 broadcasting stations in the United States, serving every community.**

2—**Broadcasting stations have increased their power** and radiation efficiency.

3—**Receiving sets are much more selective and have** greater receiving range than a year ago.

4—**Loop receivers have come into vogue—particularly** the portable set with self-contained aerials, which is easily carried on vacation and business trips.

5—**Principal stations are now simultaneously broadcasting important features.**

6—**Re-broadcasting from high-power stations is being done through relay stations scattered throughout the country.**

Gigantic Radio Net Being Formed by United States

WASHINGTON.

A gigantic radio net of transmitting stations is being developed throughout the United States which will eventually connect every city and town, and practically every household, as far as reception alone is concerned. Under the supervision of the Department of Commerce, this means of disseminating important information, especially in times of emergency, would reach more individuals than there are telephone subscribers, and a larger number than the combined newspaper readers of the nation. Amateurs are an integral part of the system.

Broadcasting Stations Everywhere

Dozens of radio stations in your part of the country are broadcasting daily.

Everywhere programs are within one's reach. Speech and music are rushing through the air you breathe no matter where you live.

In the entire country there is scarcely a point where there is not from one to ten or more stations within a hundred miles or so.

Broadcasting Stations of the United States by States

4	Alabama	2	Hawaii	15	Massachusetts	28	New York	4	South Dakota
3	Arizona	5	Idaho	15	Michigan	1	Nevada	6	Tennessee
7	Arkansas	30	Illinois	13	Minnesota	3	North Carolina	10	Texas
43	California	12	Indiana	4	Mississippi	4	North Dakota	1	Vermont
11	Colorado	20	Iowa	23	Missouri	34	Ohio	7	Virginia
3	Connecticut	9	Kansas	5	Montana	11	Oklahoma	5	Utah
2	Delaware	2	Kentucky	18	Nebraska	12	Oregon	23	Washington
6	D. of C.	14	Louisiana	2	New Hampshire	39	Pennsylvania	3	West Virginia
6	Florida	5	Maine	15	New Jersey	8	Rhode Island	13	Wisconsin
6	Georgia	4	Maryland	2	New Mexico	3	South Carolina	3	Wyoming

TOTAL.....544

By examining this list you can see how many are near you. While nearly all of these stations are operated by business concerns, please do not get the impression they broadcast programs directly advertising merchandise. No station is permitted to do this. No station broadcasts anything but the music, entertainment, instruction, etc., as mentioned in this book—with this exception: A station is permitted merely in the announcing to say something like this: "This music is being broadcast from station WEAF, American Telephone and Telegraph Company, by the World Insurance Company's Instrumental Trio."

Who Operate The Stations?

The Broadcasting Stations of the United States are operated by institutions and others, approximately as follows:

Colleges, Universities, Institutes	77
Newspapers, Publishers, Printers	32
Churches	22
Theatres	5
Cities	5
Business Houses, Associations, etc.	403
	544

A specially designed Radio Set you can get from us for only $21.95, the D. K. Superior will receive from several to perhaps a score or more of these stations, and bring you and your family all the entertainment you desire.

How Programs Are Made Up

Much that you like. And think of the variety! You never get tired of listening! Radio is a godsend to millions—perhaps it would be so to more than one in your own home.

An analysis of entertainment programs would show features in about the following proportions:

23%	Dance Music	5%	Vocal Recitals
17	Popular Songs	5	Banquet Speeches
10	Instrumental Recitals	5	Church Services
10	Sports	2	Bedtime Stories
8	Opera	2	Readings
7	Lectures		
6	Current Plays	100%	

Who Chose Radio Calls

Do you know why all radio call letters in this country start with N, W or KDA? At the International Wireless Convention held at Berne, Switzerland, the alphabet for call letter use was allocated to all nations. The United States drew all "N," all "W" and everything in "K" from KDA to KDZ. The N's are retained by the navy. W's are allotted to stations east of the Mississippi and the KD's to stations west of the river. Somehow KDKA at Pittsburgh and KYG at Chicago slipped in on the K's prior to this division.

Who Pays For The Entertainment You Get Free?

Broadcasting stations are prohibited by the government which licenses them, from doing any direct advertising while broadcasting, but they are permitted to broadcast musical programs and other features supplied by hotels, orchestras, business houses and the like, and before and after the performance announce that the feature or program is given through the courtesy of so-and-so, giving the name of the provider thereof. In this way the name of the hotel, department store, theatre, orchestra, college, university or business house is spoken into the ears of hundreds of thousands and even millions, every day in many cases. Those providing and paying for such entertainment find that the good will developed among the radio listeners is worth what it costs them to provide and pay for the programs and for the broadcasting.

When thousands of concerns or individuals throughout the United States are willing to supply free to you the best music and other entertainment, instruction, information, and the like, is it expecting too much of you to spend the trivial sum of $21.95 for the means by which to receive it? This is all our D. K. Superior Set will cost you. Such a small sum represents no more than the cost of several tickets to a show or lecture or baseball or football game or other diversions. The D. K. Superior Radio Set will bring you scores of such features for each one available the old-fashioned way and at no cost except for the set and a few cents a week for upkeep. Should you not order one? Satisfaction Guaranteed.

"What Distance Shall I Be Able To Receive?"

No one, not even a radio expert, can tell you in advance just how far you might be able to receive with any set from your location, and this is why we do not guarantee that you will receive everything up to a certain number of miles.

The reason is that some things in radio are yet unknown to the scientists, and there are some invisible differences in various parts of the country which affect reception.

We do guarantee, however, that the D. K. Superior Set which we are featuring as a very low price Set will prove perfectly satisfactory to you, which means that it positively will receive loud and clear and pleasant to you, broadcasting from stations in your part of the country—50, 100, possibly 500 or even 1,000 or more miles from you.

We have customers who receive from Salt Lake City, Utah, over 2,000 miles distant, other places 1,500 miles away, and many other points over 1,000 miles away.

However, receiving from a great distance is not of so much importance as to be able to hear the programs within 100 or several hundred miles, which are so numerous as to supply a family with all the entertainment for which they would have time.

(We guarantee all our sets to be satisfactory.)

LIST OF BROADCASTING STATIONS

In the United States, Canada, Cuba, Porto Rico and Mexico

KEEP THIS FOR REFERENCE

UNITED STATES

Call	Location	Meters
AA3	Denver, Colo	440
AQ6	Canton, Ohio	425
AT9	Fort Brogg, N. C	435
AV7	St. Paul, Minn	400
AW5	Dayton, Ohio, U. S. Army	
KDBG	Culver City, Cal	146
KDKA	E. Pittsburgh, Pa	326
KDPM	Cleveland, Ohio	270
KDPT	San Diego, Cal	224
KDYL	Salt Lake City, Utah	360
KDYM	San Diego, Cal	280
KDYQ	Portland, Oregon	360
KDZB	Bakersfield, Calif	360
KDZE	Seattle, Wash	270
KDZI	Wenatchee, Wash	360
KDZR	Bellingham, Wash	261
KFAD	Phoenix, Ariz	360
KFAE	Pullman, Wash	330
KFAF	Denver, Colo	278
KFAJ	Boulder, Colo	261
KFAR	Hollywood, Cal	280
KFAU	Boise, Idaho	270
KFAW	Santa Ana, Cal	280
KFAY	Medford, Ore	283
KFBB	Havre, Mont	360
KFBC	San Diego, Cal	278
KFBE	San Luis Obispo, Cal	242
KFBG	Tacoma, Wash	360
KFBK	Sacramento, Cal	283
KFBL	Everett, Wash	224
KFBS	Trinidad, Colo	280
KFBU	Laramie, Wyo	283
KFCB	Phoenix, Ariz	278
KFCF	Walla Walla, Wash	360
KFCL	Los Angeles, Cal	236
KFCP	Ogden, Utah	360
KFCV	Houston, Texas	360
KFCZ	Omaha, Neb	258
KFDD	Boise, Idaho	252
KFDH	Tucson, Ariz	268
KFDJ	Corvallis, Ore	360
KFDX	Shreveport, La	360
KFDY	Brookings, S. D	360
KFDZ	Minneapolis, Minn	231
KFEC	Portland, Ore	248
KFEL	Denver, Colo	254
KFEQ	Oak, Neb	268
KFER	Fort Dodge, Iowa	231
KFEV	Casper, Wyo	263
KFEX	Minneapolis, Minn	261
KFEY	Kellogg, Idaho	360
KFEZ	St. Louis, Mo	248
KFFB	Boise, Idaho	273
KFFE	Pendleton, Ore	360
KFFP	Moberly, Mo	266
KFFR	Sparks, Nev	226
KFFV	Lamoni, Iowa	280
KFFX	Omaha, Neb	278
KFFY	Alexandria, La	275
KFGC	Baton Rouge, La	254
KFGD	Chickasha, Okla	248
KFGH	Stanford Univ., Cal	273
KFGL	Arlington, Ore	234
KFGQ	Boone, Iowa	226
KFGX	Orange, Texas	250
KFGZ	Berrien Springs, Mich	286
KFHA	Gunnison, Colo	252
KFHD	St. Joseph, Mo	226
KFHH	Neah Bay, Wash	261
KFHJ	Santa Barbara, Cal	360
KFHR	Seattle, Wash	263
KFI	Los Angeles, Cal	469
KFIF	Portland, Ore	360
KFIL	Louisburg, Kan	234
KFIO	Spokane, Wash	252
KFIQ	Yakima, Wash	242
KFIU	Juneau, Alaska	226
KFIX	Independence, Mo	240
KFIZ	Fond du Lac, Wis	273
KFJB	Marshalltown, Iowa	248
KFJC	Seattle, Wash	270
KFJF	Oklahoma City, Okla	252
KFJI	Astoria, Ore	252
KFJK	Bristow, Okla	233
KFJL	Ottumwa, Iowa	242
KFJM	Grand Forks, N. D	280
KFJQ	Grand Forks, N. D	280
KFJR	Stevensville, Mont	258
KFJX	Cedar Falls, Iowa	280
KFJY	Fort Dodge, Iowa	246
KFJZ	Fort Worth, Texas	249
KFKA	Greeley, Colo	273
KFKB	Milford, Kan	286
KFKQ	Conway, Ark	250
KFKV	Butte, Mont	233
KFKX	Hastings, Neb	341
KFKZ	Colorado Springs, Colo	234
KFLA	Butte, Mont	283
KFLD	Franklinton, La	234
KFLE	Denver, Colo	268
KFLQ	Little Rock, Ark	261
KFLU	San Benito, Texas	236
KFLV	Rockford, Ill	229
KFLW	Missoula, Mont	240
KFLX	Galveston, Texas	240
KFLZ	Atlantic, Iowa	273
KFMB	Little Rock, Ark	254
KFMQ	Fayetteville, Ark	263
KFMR	Sioux City, Iowa	261
KFMT	Minneapolis, Minn	231
KFMW	Houghton, Mich	266
KFMX	Northfield, Minn	283
KFMZ	Roswell, N. M	250
KFNF	Shenandoah, Iowa	266
KFNG	Coldwater, Miss	254
KFNJ	Warrensburg, Mo	234
KFNL	Paso Robles, Cal	240
KFNV	Santa Rosa, Cal	234
KFNX	Peabody, Kan	240
KFNY	Helena, Mont	261
KFNZ	Burlingame Cal	231
KFOA	Seattle, Wash	455
KFOC	Whittier, Calif	236
KFOD	Wallace, Idaho	224
KFOF	Marshfield, Ore	246
KFOJ	Moberly, Mo	246
KFOL	Marengo, Iowa	234
KFON	Long Beach, Calif	234
KFOO	Salt Lake City, Utah	261
KFOP	Dallas, Texas	263
KFOQ	Galveston, Texas	240
KFOR	David City, Nebr	226
KFOT	Wichita, Kan	231
KFOU	Richmond, Calif	254
KFOX	Omaha, Nebr	248
KFOY	St. Paul, Minn	226
KFOZ	Fort Smith, Ark	233
KFPB	Seattle, Wash	224
KFPG	Los Angeles, Calif	238
KFPH	Salt Lake City, Utah	242
KFPL	Dublin, Tex	242
KFPM	Greenville, Tex	242
KFPN	Jefferson City, Mo	242
KFPO	Denver, Colo	231
KFPP	Olympia, Wash	236
KFPQ	Denison, Tex	231
KFPR	Los Angeles, Calif	231
KFPS	Casper, Wyo	242
KFPT	Salt Lake City, Utah	268
KFPV	San Francisco, Calif	236
KFPW	Carterville, Mo	268
KFPX	Pine Bluff, Ark	242
KFPY	Spokane, Wash	283
KFQA	St. Louis, Mo	261
KFQB	Fort Worth, Tex	254
KFQC	Taft, Calif	227
KFQD	Anchorage, Alaska	280
KFQE	Colorado Springs	224
KFQF	Minneapolis, Minn	224
KFQG	Los Angeles, Calif	226
KFQH	Hillsbourgh, Calif	231
KFQI	Culver City, Calif	234
KFQJ	Oklahoma City, Okla	236
KFQK	Fayette, Mo	236
KFQL	Muskogee, Okla	252
KFQM	Austin, Tex	268
KFQN	Portland, Ore	283
KFQO	Russell, Kansas	261
KFQP	Iowa City, Iowa	224
KFQR	Oklahoma City, Okla	250
KFQS	Manitou, Colo	246
KFQT	Dennison, Tex	252
KFQU	Holy City, Calif	234
KFQV	Omaha, Neb	231
KFQW	North Bend, Wash	248
KFQX	Seattle, Wash	233
KFSG	Los Angeles, Calif	278
KGB	Tacoma, Wash	252
KGG	Portland, Ore	360
KGO	Oakland, Calif	312
KGU	Honolulu, Hawaii	360
KGW	Portland, Ore	492
KGY	Lacey, Wash	258
KHJ	Los Angeles, Calif	895
KHQ	Seattle, Wash	360
KIAF	Sihtipoo, Minn	421
KJQ	Stockton, Calif	273
KJR	Seattle, Wash	283
KJS	Los Angeles, Calif	360
KLS	Oakland, Calif	360
KLX	Oakland, Calif	509
KLZ	Denver, Colo	232
KMJ	Fresno, Calif	248
KMO	Tacoma, Wash	360
KNT	Kukak Bay, Alaska	263
KNX	Los Angeles, Calif	360
KOB	State College, N. M	360
KOP	Detroit, Mich	286
KPO	San Francisco, Calif	423
KQP	Hood River, Ore	360
KQV	Pittsburgh, Pa	270
KQW	San Jose, Calif	360
KRE	Berkeley, Calif	275
KSD	St. Louis, Mo	546
KTW	Seattle, Wash	360
KUO	San Francisco, Calif	360
KUY	El Monte, Calif	256
KWG	Stockton, Calif	360
KYQ	Honolulu, Hawaii	270
KYW	Chicago, Ill	536
KZM	Oakland, Calif	360
NAA	Radio, Va (Arlington)	435
WAAB	New Orleans, La	263
WAAC	New Orleans, La	360
WAAD	Cincinnati, Ohio	360
WAAF	Chicago, Ill	286
WAAM	Newark, N. J	263
WAAN	Columbia, Mo	254
WAAW	Omaha, Nebr	286
WABA	Lake Forest, Ill	266
WABB	Harrisburg, Pa	286
WABD	Dayton, Ohio	283
WABE	Washington, D. C	283
WABH	Sandusky, Ohio	240
WABI	Bangor, Me	240
WABL	Storrs, Conn	283
WABM	Saginaw, Mich	254
WABN	La Cross, Wis	244
WABO	Rochester, N. Y	283
WABP	Dover, Ohio	266
WABQ	Haverford, Pa	261
WABR	Toledo, Ohio	270
WABT	Washington, Pa	252
WABU	Camden, N. J	226
WABW	Wooster, Ohio	234
WABX	Mt. Clemens, Mich	270
WABY	Philadelphia, Pa	242
WABZ	New Orleans, La	263
WAR	Sleight, Wisc	406
WBAA	W. Lafayette, Ind	283
WBAK	Harrisburg, Pa	400
WBAN	Paterson, N. J	244
WBAO	Decatur, Ill	360
WBAP	Fort Worth, Texas	476
WBAV	Columbus, Ohio	425
WBAX	Wilkes-Barre, Pa	360
WBAY	New York, N. Y	492
WBBA	Newark, Ohio	240
WBBD	Reading, Pa	234
WBBF	Atlanta, Ga	270
WBBG	Mattapoisett, Mass	248
WBBH	Port Huron, Mich	246
WBBJ	West Palm Beach, Fla	258
WBBL	Richmond, Va	283
WBBM	Chicago, Ill	226
WBBN	Wilmington, N. C	275
WBBP	Petoskey, Mich	246
WBBR	Staten Island, N. Y	273
WBBT	Philadelphia, Pa	234
WBBU	Monmouth, Ill	224
WBBV	Johnstown, Pa	248
WBBW	Norfolk, Pa	222
WBBY	Charleston, S. C	268
WBBZ	Indianapolis, Ind	227
WBL	Anthony, Kan	254
WBR	Butler, Pa	1599

There Are Stations Near You

Call	Location	Meters
WBS	Newark, N. J.	360
WBT	Charlotte, N. C.	360
WBZ	Springfield, Mass.	337
WCAD	Canton, N. Y.	280
WCAE	Pittsburgh, Pa.	462
WCAG	New Orleans, La.	268
WCAH	Columbus, Ohio	286
WCAJ	University Place, Neb.	283
WAK	Houston, Texas	263
WCAL	Northfield, Minn.	360
WCAO	Baltimore, Md.	360
WCAP	Washington, D. C.	469
WCAR	San Antonio, Texas	360
WCAT	Rapid City, S. D.	240
WCAU	Philadelphia, Pa.	286
WCAV	Little Rock, Ark.	360
WCAY	Milwaukee, Wis.	266
WCAZ	Carthage, Ill.	246
WCBA	Allentown, Pa.	280
WCBC	Ann Arbor, Mich.	280
WCBD	Zion, Ill.	345
WCBE	New Orleans, La.	263
WCBF	Pittsburgh, Pa.	236
WCBG	Pascagoula, Miss.	268
WCBH	Oxford, Miss.	242
WCBJ	Jennings, La.	244
WCBK	St. Petersburg, Fla.	266
WCBL	Houlton, Me.	280
WCBM	Baltimore, Md.	229
WCBN	Ft. Benj. Harrison, Ind.	266
WCBO	Memphis, Tenn.	250
WCBQ	Nashville, Tenn.	236
WCBR	Providence, R. I.	246
WCBT	Worcester, Mass.	238
WCBU	Arnold, Pa.	254
WCBY	Tullahoma, Tenn.	252
WCBW	Macon, Ga.	226
WCBX	Newark, N. J.	233
WCBY	Buck Falls, Pa.	268
WCBZ	Chicago Heights, Ill.	248
WCK	St. Louis, Mo.	360
WCX	Detroit, Mich.	517
WDAE	Tampa, Fla.	360
WDAF	Kansas City, Mo.	411
WDAG	Amarillo, Texas	263
WDAH	El Paso, Texas	268
WDAK	Hartford, Conn.	261
WDAR	Philadelphia, Pa.	395
WDAS	Worcester, Mass.	360
WDAU	New Bedford, Mass.	360
WDAY	Fargo, N. D.	244
WDBA	Columbus, Ga.	236
WDBB	Taunton, Mass.	229
WDBC	Lancaster, Pa.	258
WDBD	Martinsburg, W. Va.	268
WDBE	Atlanta, Ga.	252
WDBF	Youngstown, Ohio	246
WDBH	Worcester, Mass.	268
WDBI	St. Petersburg, Fla.	226, 300
WDBJ	Roanoke, Va.	229
WDBK	Cleveland, Ohio	248
WDBN	Bangor, Me.	254
WDBO	Winter Park, Fla.	240
WDBP	Superior, Wis.	261
WDBQ	Salem, N. J.	234
WDBR	Boston, Mass.	256
WDBS	Dayton, Ohio	283
WDBT	Hattiesburg, Miss.	236
WDBU	Skowhegan, Me.	258
WDBV	Fort Wayne, Ind.	258
WDBW	Columbia, Tenn.	268
WDBX	New York, N. Y.	233
WDBY	Chicago, Ill.	258
WDBZ	Kingston, Ill.	233
WDM	Washington, D. C.	278
WDZ	Tuscola, Ill.	278
WEAA	Flint, Mich.	280
WEAE	Blackburg, Va.	360
WEAF	New York, N. Y.	492
WEAH	Wichita, Kan.	280
WEAI	Ithaca, N. Y.	286
WEAJ	Vermilion, S. D.	283
WEAM	North Plainfield, N. J.	286
WEAN	Providence, R. I.	273
WEAO	Columbus, Ohio	360
WEAP	Mobile, Ala.	360
WEAR	Baltimore, Md.	261
WEAU	Sioux City, Iowa	360
WEAY	Houston, Texas	360
WEB	St. Louis, Mo.	273
WEBA	New Brunswick, N. J.	233
WEBC	Superior, Wis.	242
WEBD	Anderson, Ind.	246
WEBE	Cambridge, Ohio	248
WEBH	Chicago, Ill.	370
WEBI	Salisbury, Md.	242
WEBJ	New York, N. Y.	273
WEBP	New Orleans, La.	242
WEV	Houston, Tex.	263
WEW	St. Louis, Mo.	280
WFAA	Dallas, Texas	476
WFAB	Syracuse, N. Y.	234
WFAH	Port Arthur, Texas	236
WFAM	St. Cloud, Minn.	273
WFAN	Hutchinson, Minn.	360
WFAV	Lincoln, Neb.	275
WFBB	Eureka, Ill.	240
WFBG	Altoona, Pa.	261
WFBH	New York, N. Y.	273
WFI	Philadelphia, Pa.	395
WGAL	Lancaster, Pa.	248
WGAN	Pensacola, Fla.	360
WGAQ	Shreveport, La.	252
WGAW	Altoona, Pa.	261
WGAZ	South Bend, Ind.	275
WGH	Philadelphia, Pa.	360
WGI	Medford Hillside, Mass.	360
WGN	Chicago, Ill.	370
WGR	Buffalo, N. Y.	319
WGY	Schenectady, N. Y.	380
WHA	Madison, Wis.	360
WHAA	Iowa City, Iowa	484
WHAD	Milwaukee, Wis.	280
WHAG	Cincinnati, Ohio	222
WHAH	Joplin, Mo.	283
WHAK	Clarksburg, W. Va.	258
WHAM	Rochester, N. Y.	283
WHAR	Atlantic City, N. J.	275
WHAS	Louisville, Ky.	400
WHAV	Wilmington, Del.	360
WHAZ	Troy, N. Y.	380
WHB	Kansas City, Mo.	411
WHK	Cleveland, Ohio	283
WHO	Des Moines, Iowa	526
WHN	New York, N. Y.	360
WIAB	Rockford, Ill.	252
WIAD	Waco, Tex.	360
WIAC	Galveston, Texas	360
WIAD	Philadelphia, Pa.	254
WIAK	Omaha, Neb.	278
WIAO	Milwaukee, Wis.	246
WIAQ	Marion, Ind.	226
WIAS	Burlington, Iowa	283
WIAY	Washington, D. C.	273
WIK	McKeesport, Pa.	234
WIL	Washington, D. C.	360
WIP	Philadelphia, Pa.	509
WJAB	Lincoln, Neb.	229
WJAG	Norfolk, Neb.	283
WJAK	Greentown, Ind.	254
WJAM	Cedar Rapids, Iowa	268
WJAN	Peoria, Ill.	280
WJAQ	Topeka, Kan.	360
WJAR	Providence, R. I.	360
WJAS	Pittsburgh, Pa.	286
WJAX	Cleveland, Ohio	390
WJD	Granville, Ohio	229
WJM	Cedar Rapids, Iowa	268
WJY	New York, N. Y.	405
WJZ	New York, N. Y.	455
WKAA	Cedar Rapids, Iowa	278
WKAD	E. Providence, R. I.	240
WKAF	Wichita Falls, Texas	360
WKAN	Montgomery, Ala.	226
WKAR	E. Lansing, Mich.	280
WKAV	Laconia, N. H.	254
WKBF	Providence, R. I.	286
WKY	Oklahoma City, Okla.	360
WLAH	Syracuse, N. Y.	234
WLAL	Tulsa, Okla.	360
WLAP	Louisville, Ky.	286
WLAQ	Kalamazoo, Mich.	283
WLAV	Pensacola, Fla.	254
WLAW	New York, N. Y.	360
WLB	Minneapolis, Minn.	360
WLBL	Stevens Point, Wis.	278
WLS	Chicago, Ill.	345
WLW	Cincinnati, Ohio	423
WMAC	Cazenovia, N. Y.	261
WMAF	Dartmouth, Mass.	360
WMAH	Lincoln, Nebr.	254
WMAK	Lockport, N. Y.	273
WMAI	Trenton, N. J.	256
WMAN	Columbus, Ohio	260
WLAX	Greencastle, Ind.	231
WMAQ	Chicago, Ill.	448
WMAV	Auburn, Ala.	254
WMAY	St. Louis, Mo.	280
WMAZ	Macon, Ga.	261
WMC	Memphis, Tenn.	500
WMH	Cincinnati, Ohio	309
WMU	Washington, D. C.	261
WNAC	Boston, Mass.	278
WNAD	Norman, Okla.	360
WNAL	Omaha, Nebr.	258
WNAP	Springfield, Ohio	275
WNAR	Butler, Mo.	231
WNAT	Philadelphia, Pa.	360
WNAW	Ft. Monroe, Va.	360
WNAX	Yankton, S. Dak.	244
WNYC	New York, N. Y.	526
WOAC	Lima, Ohio	266
WOAE	Tremont, Nebr.	280
WOAF	Tyler, Tex.	360
WOAG	Belvidere, Ill.	273
WOAH	Charleston, S. C.	360
WOAI	San Antonio, Tex.	385
WOAN	Lawrenceburg, Tenn.	360
WOAO	Mishawaka, Ind.	360
WOAR	Kenosha, Wis.	229
WOAT	Wilmington, Del.	360
WOAV	Erie, Pa.	242
WOAW	Omaha, Nebr.	526
WOAX	Trenton, N. J.	240
WOC	Davenport, Iowa	484
WOI	Ames, Iowa	360
WOO	Philadelphia, Pa.	509
WOQ	Kansas City, Mo.	360
WOR	Newark, N. J.	405
WOS	Jefferson City, Mo.	441
WPAB	State College, Pa.	283
WPAC	Okmulgee, Okla.	360
WPAJ	New Haven, Conn.	268
WAK	Agricultural Col., N. D.	283
WPAL	Columbus, Ohio	286
WPAM	Topeka, Kans.	275
WPAR	Beloit, Kan.	230
WPAU	Moorhead, Minn.	286
WPAZ	Charleston, W. Va.	273
WQAA	Parkesburg, Pa.	360
WQAC	Amarillo, Tex.	234
WQAE	Springfield, Vt.	275
WQAF	Sandusky, Ohio	240
WQAM	Miami, Fla.	283
WQAN	Scranton, Pa.	280
WQAO	New York, N. Y.	360
WQAQ	Abilene, Tex.	360
WQAS	Lowell, Mass.	266
WQAX	Peoria, Ill.	248
WQJ	Chicago, Ill.	448
WRAF	Laporte, Ind.	224
WRAL	St. Croix Falls, Wis.	248
WRAM	Galesburg, Ill.	244
WRAN	Waterloo, Iowa	236
WRAO	St. Louis, Mo.	360
WRAV	Yellow Springs, O.	242
WRAW	Reading, Pa.	238
WRAX	Gloucester City, N. J.	268
WRBC	Valparaiso, Ind.	278
WRC	Washington, D. C.	469
WRK	Hamilton, Ohio	360
WRL	Schenectady, N. Y.	360
WRM	Urbana, Ill.	360
WRR	Dallas, Tex.	360
WRW	Tarrytown, N. Y.	273
WSAB	Cape Girardeau, Mo.	360
WSAC	Clemson College, S. C.	360
WSAD	Providence, R. I.	261
WSAI	Cincinnati, Ohio	309
WSAN	Allentown, Pa.	229
WSAP	New York, N. Y.	263
WSAR	Fall River, Mass.	254
WSAU	Chesham, N. H.	229
WSAV	Houston, Texas	360
WSAZ	Pomeroy, Ohio	258
WSB	Atlanta, Ga.	429
WSL	Utica, N. Y.	273
WSY	Birmingham, Ala.	360
WTAB	Fall River, Mass.	266
WTAC	Johnstown, Pa.	275
WTAF	New Orleans, La.	268
WTAG	Providence, R. I.	258
WTAJ	Portland, Me.	236
WTAL	Toledo, Ohio	252
WTAM	Cleveland, Ohio	390
WTAP	Cambridge, Ill.	242
WTAQ	Oseo, Wis.	254
WTAR	Norfolk, Va.	380
WTAS	Elgin, Ill.	286
WTAT	Boston, Mass.	246
WTAU	Tecumseh, Nebr.	242
WTAW	College Station, Tex.	280

Some Receivers "Bring In" Europe

Call	Location	Meters
WTAX	Streator, Ill.	231
WTAY	Oak Park, Ill.	283
WTAZ	Lambertville, N. J.	283
WTG	Manhattan, Kans.	273
WTL	Chicago, Ill.	268
WWAB	Trenton, N. J.	226
WWAD	Philadelphia, Pa.	360
WWAO	Houghton, Mich.	244
WWAE	Joliet, Ill.	227
WWI	Dearborn, Mich.	273
WWJ	Detroit, Mich.	517
WWL	New Orleans, La.	280

AUSTRALIA

Willouby—2FC.

BRITISH ISLES

Aberdeen—2BD.
Birmingham—5IT.
Bournemouth—6BM.
Cardiff—5WA.
Glasgow—5SC.
London—2LO.
Manchester—2ZY.
Newcastle—5NO.
Plymouth—5PY.
Sheffield—6FL.

CANADA

Bellevue—CFCO.
Calgary—CFAC, CFCN, CHBC, CHCM, CHCX.
Edmonton—CFCK, CJCA.
Halifax—CHAC.
Hamilton—CHCS, CKOC.
Iroquois Falls—CFCH.
Kingston—CFRC.
London—CFCW, CJGC.
Mont-Joli—CJCM.
Montreal—CFCF, CFUC, CHYC, CKAC.
Nanaimo—CFDC.
New Westminster—CFXC.
Olds—CJCX.
Ottawa—OA, CKCO, CNRO.
Quebec—CFCJ, CHCD, CKCI.
Regina—CKCK.
St. John—CJCI.
Saskatoon—CFQC.
Sudbury—CFCR.
Toronto—CFCA, CHCB, CHNC, CJCD, CJCN, CJSC, CKCE.
Vancouver—CFCQ, CFYC, CHCL, CJCE, CKCD.
Victoria—CFCL, CHCE.
Winnipeg—CKY.

CUBA

Caibarien—6EV.
Cienfuegos—6AZ, 6BY, 6CX, 6DW.
Camaguey—7AZ, 7BY.
Colon—5EV.
Ella—7SR.
Havana—PWX, 2AB, 2BX, 2BY, 2CX, 2DW, 2HC, 2HS, 2JQ, 2KD, 2KP, 2LC, 2MG, 2OK, 2OL, 2TW, 2WW, 2XD.
Santiago—8AZ, 8BY, 8DW, 8EV, 8FU, 8GT.
Tuinucu—6KW, 6XJ.

CZECHO SLOVAKIA

Prague—KBELY.

FINLAND

Tammerfors—3NB.

FRANCE

Lyons—YN.
Paris—CW, ESP, FL, FPTT.

MEXICO

Mexico City—CYB, CYL, CYX.
Monterey—CYO.

PORTO RICO

San Juan—WKAQ.

SWITZERLAND

Geneva—HBI.
Lausanne—HB2.

Why You And Your Family Want A Radio Set

1. You need it. Radio is a living, tangible thing, something to use in your daily life, in business and pleasure. Its use is spreading like wildfire—the whole country is rapidly becoming aflame with it.

2. You can sit **comfortably in your own home** and with one of our receivers enjoy the finest music and entertainment.

3. There is **no cheaper or more satisfactory way** of selecting phonograph or sheet music for permanent use than to choose from the numerous classical and popular numbers broadcast every day. What you like you can buy—after you are sure you do like it.

4. The best entertainment of the country is free to you. Would you not make a great mistake not to benefit from it which you can do so easily and cheaply by using a Radio Receiving Set?

5. Radio enables you to hear the **greatest celebrities**, perhaps few or none of whom otherwise you could ever hear.

6. It will **cheer and lighten the burdens** of any blind, hard of hearing, sick, "shut-ins," hard-working housework ers, or other toilers, and be a valuable help to any children in schoolwork and otherwise.

7. Its educational and entertainment value is **beyond calculation.**

8. It will keep the young folks at home and contented.

9. It will **save money for you** and your family by providing free, superior diversion at your own fireside.

10. It will **keep you informed** every day concerning the latest news and the weather and markets.

11. You can hear broadcasting **from many stations,** some perhaps many hundreds of miles distant, as well as the nearby stations. You do not need to know anything about radio or electricity to get perfect satisfaction from one of our Receivers.

12. Your neighbors are or will be getting radio sets and **you do not wish to be behind them.**

13. A Radio Set is **less bother** to operate than changing phonograph records.

14. You cannot spend money in any other way to bring so much pleasure and benefit.

15. As a hobby merely, it is the **most useful imaginable.**

16. A Set will **serve you faithfully** many years.

The Liberty Mail Order House Stands Ready To Help You

A Multitude of Programs Within Your Call!

Here are facsimile reproductions of the programs of a few radio broadcasting stations for just one day, as quoted by Radio Digest, showing a great variety of features. Each day throughout the country there are **many thousands of such performances.** To give you an idea of the hours in the evening during which broadcasting is done by stations in general. we give the hours of service of seven stations taken at random. Many give service also in the morning and early afternoon.

AN EVENING AT HOME WITH THE LISTENER IN

Station and City	Met.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
WCX Detroit, Mich.....	517	7:30- 9:00	7:30-11:00	7:30- 9:00	7:30- 9:00	7:30- 9:00	Silent	6:15- 7:15
WDAF, Kansas City, Mo...	411	8:00- 1:00	11:45- 1:00	8:00- 1:00	11:45- 1:00	8:00- 1:00	11:45- 1:00	4:00- 5:00
WDAR, Philadelphia, Pa...	395	5:30- 9:00	5:30- 6:30	5:30- 9:00	5:30- 6:30	5:30-11:00	5:30- 6:30	Silent
WEAF, New York, N. Y...	492	6.00- 8:00	6:00- 8:00	6:00- 8:00	6:00-10:00	6:00- 8:00	6:00-10:00	Silent
WEBH, Chicago, Ill.	370	6:30-11:30	6:30-11:30	6:30-11:30	6:30-11:30	6:30-21:30	6:30-11:30	6:00- 8:00
WEAY, Houston, Texas....	360	10:00-12:00	10:00-12:00	10:00-12:00	10:00-12:00	8:00-12:00	8:00-12:00	8.00-10:45
WFAA, Dallas, Tex.....	476	8:30- 9:30	8:30-12:00	Silent	8:30-12:00	8:30- 9:30	8:30-12:00	6:00-11:00

Friday, August 29

Silent night for: CKAC, KGO, KPO, WBBR, WFI, WIP, WLW, WMH, WOR, WSAI.

CKAC, Montreal, Can. (Eastern, Daylight, 425), 1:45 p. m., Mt. Royal hotel luncheon concert.

KDKA, E. Pittsburgh, Pa. (Eastern, 326), 11:15 a. m., Daugherty's orchestra; 5:30 p. m., Paul Fleeger, organist; 6:30, children's period, the poetry lady; 7:30, address, United States Bureau of mines; 8, trio, KDKA Little Symphony orchestra.

KFI, Los Angeles, Calif. (Pacific, 469), 6:45-8 p. m., Aeolian organ recital; 8-9, Evening Herald, Blue Moon syncopators; 9-10, Examiner concert program; 10-11, vocal and instrumental concert, Maude Reeves-Barnard; 11-12, Ambassador hotel Cocoanut Grove dance orchestra.

KFNF, Shenandoah, Ia. (Central, 266), 7:30 p. m., orchestra, Redding.

KFOA, Seattle, Wash. (Pacific, 455), 8:30 p. m., piano, violin, zylophone solos.

KFSG, Los Angeles, Calif. (Pacific, 278), 3:30-4:30 p. m., organ recital program, courtesy, Roy Reid Brignall; 7:30-9:15, crusaders meeting, crusaders chorus; Judge Carlos S. Hardy; sermon, Aimee Semple McPherson; 9:15-10, Gray studio program; 10-11, organ recital-concert, courtesy, R. Earnest Ballard.

KGO, Oakland, Calif. (Pacific, 312), 4-5:30 p. m., concert, orchestra of the Hotel St. Francis.

KHJ, Los Angeles, Calif. (Pacific, 395), 12:30-1:15 p. m., concert, the Rendezvous trio, Tom Makaena, manager, the Rendezvous Cellar, Santa Monica, Calif.; 6-6:30, Art Hickman's concert orchestra; Edward Fitzpatrick, director; 6:30-7:30, children's program, "American History," Prof. Walter Sylvester Hertzog; Richard Headrick, screen juvenile; bedtime story, Uncle John; 8-10, concert, courtesy, Golden State Electric company; direction, Mr. Sedwell; 10-11, Art Hickman's dance orchestra, Earl Burtnett, director.

KLX, Oakland, Calif. (Pacific, 509), 8-10:20 p. m., studio program; play; instrumental selections; orchestra; organ recital.

KPO, San Francisco, Calif. (Pacific, 423), 1-2 p. m., Rudy Seiger's Fairmont hotel orchestra; 2:30-3:30, Theodore J. Irwin, organist; 4:30-5:30, Rudy Seiger's Fairmont hotel orchestra.

KSD, St. Louis, Mo. (Central, 546), 7 p. m., Abergh's concert ensemble; Arne Arnesen, violinist.

KYW, Chicago, Ill. (Central, Daylight, 536), 6:45 p. m., children's bedtime story; 7-7:30, dinner concert, Congress hotel; 7:30-8, Duncan Sisters Music Publishing company; 8:20-8:45, "Club Work at the National Dairy Show," W. R. Skinner; "The Farmer and Rail Transportation," L. J. Quasey; 9-12:30, midnight revue.

WBAV, Columbus, Ohio (Eastern, 423), 12 m., Ila Lorbach Owens, pianist; 8 p. m., concert, Fort Hayes band; Defense Day address.

WBBR, New York City, (Eastern, Daylight, 273), 8 p. m., mandolin recital; 8:10, mezzo soprano; 8:20, bible questions and answers; 8:40, mandolin; 8:55, Spanish guitar.

WBZ, Springfield, Mass. (Eastern, Daylight, 337), 7:10 p. m., "Automobile Lights," Charles Lathrop; current book review, Court Square Book store; 7:30, bedtime story for the kiddies; 10, Phyllis Cleveland, soprano; Vincent Stolzino, tenor; 11, Lionel P. Spencer, baritone.

WCAE, Pittsburgh, Pa. (Eastern, Daylight, 462), 6:30 p. m., dinner concert, William Penn hotel; 9:30, musicale.

WCAP, Washington, D. C. (Eastern, Standard, 469), 8:45-9 p. m., talk; 9-10:30, dance music.

WCAY, Milwaukee, Wis. (Central, 266), 8 p. m., Oswald Jaeger Baking company program; Illini serenaders, direction of Elmer Nichols; Adeline Skobis, soprano; Bertha Schaller, violinist; Helen Reynen, pianist; Lawrence Waite, baritone; Alfred Buettner, accompanist.

WCX, Detroit, Mich. (Eastern, 517), 4:15 p. m., musical program; 6, dinner concert; 7, musical program, Tuxedo orchestra.

WDAF, Kansas City, Mo. (Central, 411), 8:30-4:30 p. m., the Star's Radio string trio; 6-7, School of the Air, piano tuning in number on the Duo-Art; fifteenth of a series of piano lessons, Maudellen Littlefield; address, speaker from the Kansas City Children's bureau; the Tell-Me-a-Story lady; music Carl Nordberg's Plantation players; 8-9:30, the Star's Radio orchestra with the WDAF minstrels; 11:45 p. m.-1 a. m., Nighthawk frolic, Charles Dornberger's orchestra, K. C. A. C. roof garden; the Plantation players.

WDAR, Philadelphia, Pa. (Eastern, Daylight, 395), 11:45 a. m., daily almanac; 12:02 p. m., Stanley theater organ recital; 12:30, Arcadia cafe concert orchestra; 7:30, Dream Daddy's bedtime stories; 8, book review, Arnold Abbott; 8:10, Benson's Chicago, Fry's Million Dollar Pier and Arcadia cafe dance orchestra; 8:30, Emmett Welch's minstrels; 9:15, Captain John Young's fishing forecast; 10, Benson's Chicago, Fry's Million Dollar Pier and Arcadia cafe dance orchestras.

WEAF, New York City, (Eastern, Daylight, 492), 11-12 a. m., muscial program; 4-5 p. m., orchestra; 6-10, dinner concert; tenor.

WEAO, Columbus, Ohio (Eastern, 360), 1:30 p. m., educational lecture, member Ohio State university faculty; 4, farm talk, faculty member; music, university artists.

WEBH, Chicago, Ill. (Central, Daylight, 370), 7:30-8:30 p. m., Grace Wilson, contralto; Frank Papila, accordion soloist; Oriole orchestra; 9:30-10:30, Fred Agard, tenor; Oriole orchestra; 11:30-12:30, Sandy Meek, tenor; Nick Lucas, songs with guitar; Oriole orchestra.

WFAA, Dallas, Tex. (Central, 476), 12:30-1 p. m., address, Dr. Robert Stewart Hyer; 8:30-9:30, Charles Scorin, baritone; Thelma Roberts, pianist.

WFI, Philadelphia, Pa. (Eastern, Daylight, 395), 1 p. m., Meyer Davis Bellevue-Stratford concert orchestra; 3, reports of Chicago grain market; 3:05, Loretta Keik, pianist; 6:30, Meyer Davis Bellevue Stratford concert orchestra; 7, Sunny Jim, the kiddies' pal.

WGI, Medford Hillside, Mass. (Eastern, Daylight, 360), 8 p. m., "The Elements of Human Personality," N. B. Cawley.

WGR, Buffalo, N. Y. (Eastern, Daylight, 319), 12:30-1 p. m., George Albert Bouchard, organist; 6:30-7:30, dinner music; 9-10, concert program by Hickman & Coward, inc., featuring the Equity Butter quartette, direction of A. J. Erisman; 10-11, concert, Passayunk Tribe of Red Men, No. 181; 11:30, supper-dance music, Vincent Lopez Hotel Statler dance orchestra, Harold Gieser, director.

WGY, Schenectady, N. Y. (Eastern, Standard, 380), 1 p. m., music and talk; 5:30, stories for children; 7:55, Radio drama; 10:30, musical program.

WHAA, Iowa City, Ia. (Central, 484), 12:30-1 p. m., Walter Kalinowski, cellist.

See What The Stations Nearest You Offer

WHAS, Louisville, Ky. (Central, 400), 4-5 p. m., Alamo theater orchestra; 7:30-9, concert, direction Mrs. Pleasant M. Brooks; Albert B. Chandler, tenor.

WHB, Kansas City, Mo. (Central, 411), 7-8 p. m., quartet selections, Stovall, Paul White, William White, Dr. Netherton; fifth and last of a series of travelogues, James G. Robertson; violin solos, Margaret Royster; Blevins Davis, accompanist.

WHK, Cleveland, Ohio (Eastern, 283), 9 p. m., concert program arranged by Wm. Taylor Son & company, Louis Rich and his orchestra.

WHN, New York City, (Eastern, Daylight, 360), 2:15 p. m., songs; 2:35, comedy numbers; 3, harmony singers; 3:45, chat with kiddies; 4, baritone; 6:30-7:30, dinner concert; 9:30, dance orchestra; 10:15, musical comedy tenor; 10:30, orchestra; 11, tenor-baritone; 11:30, Club Alabam revue.

WHO, Des Moines, Ia. (Central, 526), 7:30-9 p. m., Robert McGrew, violinist; Don Mathews, pianist; The Knights of Columbus Glee club, Roos Vernon Miller, director.

WIP, Philadelphia, Pa. (Eastern, Daylight, 509), 10 a. m., seashore gossip; 10:10, Bernarr MacFadden's health talks; 3 p. m., "What the wild waves are saying"; 3:30, Comfort's Philharmonic orchestra, Katherine Melson, contralto, Frank Nicoletta, harpist; 6:05, Eddie Elkin's dance orchestra; 7, Uncle Wip's bedtime stories.

WJAR, Providence, R. I. (Eastern, Daylight, 360), 10 a. m., household hints; 1:05 p. m., orchestra; 11, Providence Biltmore hotel orchestra.

WJZ, New York City, (Eastern, Daylight, 455), 1 p. m., Hotel Ambassador trio; 4:30, organ recital; 8, musical program; 8:30, violinist; 8:45, Piedmont trio; 10:30, orchestra.

WLS, Chicago, Ill. (Central, Daylight, 345), 1-2 p. m., Samuel Madia baritone-soprano; "Bringing the Pullets Into Winter Laying," H. L. Kempster; 6:30, Ralph Emerson, organist; Col. Edwin House, bass; George D. Home, baritone; 7:45, lullaby time, Ford Rush, Glenn Rowell; 8, program, Robert W. Stevens, Prof. Pelamartor; 9-10, "Parasites and Diseases of the Poultry Flock," H. L. Kempster; "John Turnipseed" series, E. C. Thiem; "Visiting the Coops," Walton Peteet; 10, program, Louise Crumm; 10:30, Glenn and Ford time; 10:50, Hotel Sherman College Inn orchestra.

WMAQ, Chicago, Ill. (Central, Daylight, 447.5), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8, nature study club talk, Barnett Harris; 8:15, weekly Wide-Awake club, Mrs. Frances M. Ford; 8:40, Christian Endeavor topics; 9:15, music.

WMC, Memphis, Tenn. (Central, 500), 8:30 p. m., Prof. Chin Chin and his Britling's cafeteria orchestra; 11, midnight frolic, Bob Miller's Idlewild orchestra.

WOAW, Omaha, Nebr. (Central, 526), 6 p. m., popular half-hour; 6:30, dinner program, G. R.'s Radio orchestra; 9, de luxe program.

WOC, Davenport, Ia. (Central, 484), 12 m., chimes; 8 p. m., ukulele, Fred Sutterlin; Jesse Clinton, guitarist; Peter Kale, baritone; Mrs. Leon H. Nelson, whistler.

WOO, Philadelphia, Pa. (Eastern, Daylight, 509), 11 a. m., organ recital; 12:02 p. m., Wanamaker crystal tea room orchestra; 4:45, organ recital; 7:30, A. Candelori and his Hotel Adelphia roof garden orchestra; 9:15, Harriett Ridley, organist; 10, A. Candelori and his roof garden dance orchestra.

WOS, Jefferson City, Mo. (Central, 440.9), 8 p. m., "How the New Missouri Farm Census Law is Worth a Million Dollars to the State," Jewell Mayes; 8:20, music.

WQJ, Chicago, Ill. (Central, Daylight, 448), 3-4 p. m., talks; 7-8, tenor, pianist; 10-2, orchestra; tenor; Harmony singers; steel guitar duets; tenor.

WOR, Newark, N. J. (Eastern, Daylight, 405), 2:30-3:45 p. m., Joseph del Puante, baritone; Jerry Drew's Columbia Park club; 6:30-7:15, music, Man in the Moon; J. Knox Vallance, Scotch baritone.

WRC, Washington, D. C. (Eastern, Daylight, 469), 3:10 p. m., song recital; 3:35, piano recital; 4, song recital; 6, stories and songs for children.

WSB, Atlanta, Ga. (Central, 429), 8 p. m., male quartet; 10:45, Southern Collegians orchestra.

WTAY, Oak Park, Ill. (Central, Daylight, 283), 6:45-7:45 p. m., tenor; dramatic reader; orchestra.

WWJ, Detroit, Mich. (Eastern, 517), 8 a. m., setting-up exercises, R. J. Horton; 9:30, talk, women's editor, Detroit News; 12 m., Detroit News orchestra; 3 p. m., Schmeman's band; 6, Detroit News orchestra; 7:30, Schmeman's band.

"What Can I Hear Sunday?" This Tells You

Sunday, August 31

Silent night for: CKAC, KGO, WDAR, WFI, WGI, WMH, WOO, WRC, WSAI.

CHYC, Montreal, Can. (Eastern, Daylight, 341), 9 p. m., Harry Salter concert trio.

KFI, Los Angeles, Calif. (Pacific, 469), 10-10:45 a. m., L. A. church federation service; 6:45-8 p. m., Metropolitan theater program; 8-9, Ambassador hotel concert orchestra; 9-10, Examiner program; 10-11, Packard six orchestra.

KFNF, Shenandoah, Ia. (Central, 266), 3 p. m., services, Lutheran church, Rev. T. J. Vogel; 6:30, sacred song service.

KFSG, Los Angeles, Calif. (Pacific, 278), 10:30-12:30 p. m., morning service, sermon, Aimee Semple McPherson; music, Esther Fricke Green, organist; 2:30-4:30, evangelistic service, Aimee Semple McPherson; choir and silver band, Gladwyn N. Nichols; Roy Reid Brignall, organist; 7-9:30, music hour, choir; silver band; Esther Fricke Green, organist; salvation sermon and alter call, Aimee Semple McPherson.

KGO, Oakland, Calif. (Pacific, 312), 11 a. m., service, First Congregational church, Rev. James L. Gordon, minister; 3 p. m., KGO Little Symphony orchestra; 7:30, First Congregational church.

KHJ, Los Angeles, Calif. (Pacific, 395), 10 a. m., sermon from KHJ studio; 10:30-12:30 p. m., organ recital and service from First M. E. church, Arthur Blakeley, organist, Rev. E. E. Helms, pastor; 6:30-7 p. m., Art Hackman's concert orchestra, Edward Fitzpatrick, director; 7-7:30, organ recital from First M. E. church, Arthur Blakeley, organist; 8-10, de luxe concert program.

KWY, Chicago, Ill. (Central, Daylight, 536), 10 a. m., St. Chrysostom's Episcopal church, Rev. Norman Hutton, pastor; 1:30 p. m., studio chapel service.

WCX, Detroit, Mich. (Eastern, 517), 7:45 p. m., services broadcast from Central M. E. church, Dr. Arthur C. Hill, Glasgow, Scotland, preacher; Hudson quartet.

WDAF, Kansas City, Mo. (Central, 411), 4:30-5:30 p. m., program, Newman theater.

WEBH, Chicago, Ill. (Central Daylight, 370), 7:30-8:30 p. m., Florence Gullans Smith, contralto; George O. Smith, baritone; Dean Remick, pianist; Oriole orchestra.

WFAA, Dallas, Tex. (Central, 476), 6-7 p. m., Radio Bible class, Dr. William M. Anderson, pastor; 9-9:45, choristers, German Baptist church; 9:45-11, Ligon Smith's orchestra.

WGI, Medford Hillside, Mass. (Eastern, Daylight, 360), musicale; talk, auspices Greater Boston Federation of churches, David S. Klugh.

WGR, Buffalo, N.Y. (Eastern, Daylight, 319), 3-4 p. m., vesper service, the Rev. J. Irving Reese of Westfield, N. Y., speaker.

WGY, Schenectady, N. Y. (Eastern, Standard, 380), 9:30 a. m., service; 2 p. m., concert.

WHAS, Louisville, Ky. (Central, 400), 9:57 a. m., organ music; 10, church service, Temple Adath Israel, Rev. Dr. Joseph Rauch, pastor; 4-5 p. m., Beechmont trio: Mrs. Harry Trent, soprano; Mrs. Blanche Thorp, contralto; Venus Thompson, contralto; Leah Parker, accompanist.

WHB, Kansas City, Mo. (Central, 411), 11 a. m.-12:30 p. m., services, Linwood Boulevard Christian church, Dr. Burris Jenkins, Pastor; 8-9:30, services, Church of God, Dr. Fred Bruffet, pastor.

WHK, Cleveland, Ohio (Eastern, 283), 8 p. m., chapel service, auspices Cleveland Federated churches; 9, concert program arranged by Winton Hotel company.

WHO, Des Moines, Ia. (Central, 526), 7:30-9 p. m., Bankers Life Radio orchestra.

WIP, Philadelphia, Pa. (Eastern, Daylight, 509), 8:35 p. m., Comfort's Philharmonic orchestra; 7:45, services, Holy Trinity chapel; 9:30, special Sunday evening concert from Steel Pier, Atlantic City.

WLS, Chicago, Ill. (Central, 345), 6 p. m., Ralph Emerson, organist; 7, male choir, Robert W. Stevens.

WLW, Cincinnati, Ohio (Central, Daylight, 423), 9:30 a. m., Sunday school; 11, devotional services, Church of the Covenant; sermon, Dr. Frank Stevenson; 9 p. m., concert, Western and Southern orchestra, Erwin Bellstedt, director.

WOAW, Omaha, Nebr. (Central, 526), 9 a. m., Radio chapel service conducted by Rev. R. R. Brown, pastor of the Omaha Gospel Tabernacle and minister of the Sunday morning Radio congregation; 9 p. m., musical chapel service, Trinity Methodist church, Dr. F. C. Mills, pastor.

WOC, Davenport, Ia. (Central, 484), 9 a. m., sacred chimes; 1:30 p. m., The Palmer School Radio orchestra; 8, church service; 9:30, The Palmer School Radio orchestra.

WOS, Jefferson City, Mo. (Central, 440.9), 7:30 p. m., Union open air religious services; music, Missouri State Prison concert band.

WQJ, Chicago, Ill. (Central, Daylight, 448), 8-10 p. m., Rainbo orchestra concert; Harmony singers; operatic tenor.

WSAI, Cincinnati, Ohio (Central, Daylight, 309), 3 p. m., sermonette; 3:10, sacred chimes concert.

WSB, Atlanta, Ga. (Central, 429), 11 a. m., First Presbyterian church; 5 p. m., sacred concert.

WWJ, Detroit, Mich. (Eastern, 517), 4 p. m., Schmeman's band; 5, Detroit News orchestra; 7:30, services, St. Paul's cathedral.

Crop, Market and Weather Reports

Of Interest To Stock, Grain And Fruit Growers, Dealers, Dairymen

The following is the broadcasting schedule of weather, crop and market reports, entertainment, lectures, etc., by a few of the 63 or more Federal, State and private radio broadcasting stations throughout the United States, which broadcast such information for September as published by "Power Farming." Do you not think these reports would benefit you? All you need is one of our radio sets.

We need hardly suggest that it is of great importance to you to know exactly what the market is when you are ready to buy or sell.

By having a radio set and receiving the reports you can decide wisely just what to do, and not depend on old information and be at the mercy of the other party who may have a radio set and have later market reports.

Unless you have done so, please read the articles herein reporting how others are making money, and gaining pleasure as well, from radio.

Arlington, Va., NAA, 435 meters. (Eastern Time.)
9:45 a.m. Livestock receipts; tone of market.
10:05 a.m. Weather report (Daily and Sunday).
10:25 a.m. Fruit and vegetable shipments and f. o. b. markets.
12:25 p.m. Livestock estimated receipts; comment.
1:45 p.m. Fruit and vegetable markets.
3:25 p.m. Livestock; complete market comment.
3:45 p.m. Weather report.
4:05 p.m. Special reports; agricultural news.
4:25 p.m. Dairy and poultry products; hay report.
10:05 p.m. Weather report (Daily and Sunday).

Atlanta, Ga., WSB, 429 meters. (Central Time.)
12:00 noon Musical and educational program.
12:55 p.m. Weather report.
2:30 p.m. Closing cotton, grain and produce markets; weather.
4:00 p.m. Orchestra and organ concert.
4:30 p.m. Fruit and vegetable report; summary Chicago markets.
5:00 p.m. Ball scores; news bulletins.
5:15 p.m. Musical entertainments, etc.
8:00 p.m. Concert.
8:55 p.m. Weather report.
10:45 p.m. Musical program.

Chicago, Ill., KYW, 536 meters. (Central Time.)
9:30 a.m. Late news and comment; financial and commercial markets.
10:00 a.m. Market report.
10:30 a.m. Late financial news and comment.
11:00 a.m. Market reports; time signals.
11:30 a.m. Late news, financial and commercial; special talks.
12:00 noon Market reports; weather forecast.
12:10 p.m. Final market and stock report (Saturday only).
12:30 p.m. Late financial news and comment.
1:00 p.m. Market reports and closing quotations (except Wednesday and Saturday).
2:15 p.m. Late financial news.
2:30 p.m. Closing stock quotations.
2:35 p.m. Special concerts (Tuesday and Thursday).
3:00 p.m. Late news and sport bulletins.
3:30 p.m. Late news and sports (Tuesday, Thursday and Saturday).
4:00 p.m. Late news, stock reports, etc.
4:30 p.m. News and sport bulletins.
5:00 p.m. Latest news of the day.
6:30 p.m. News, financial, final market and sport summary.
8:00 p.m. Musical concert, lectures, etc.
9:00 p.m. Weather.
10:00 p.m. Midnight review (Wednesday, Friday and Saturday).
11:00 a.m. Sermons; also 3:30 and 7:00 p.m. (Sunday).

Detroit, Mich., WWJ, 517 meters. (Eastern Time.)
9:30 p.m. Music, lectures, entertainment (Tuesday).
10:25 a.m. Weather report.
11:55 a.m. Time signals.
12:01 p.m. Weather report.
12:05 p.m. Music.
3:00 p.m. Municipal band concerts (except Monday).
3:40 p.m. Market and weather report. (Monday grain review.) (Winter.)
4:05 p.m. Market and weather report. (Monday grain review.) (Winter.)
5:00 p.m. Sporting news.
7:00 p.m. Concert alternately.
10:00 p.m. Special concert (Thursday).
11:00 a.m. Sermonts; also 2:00 and 3:30 p.m. (Sunday).

Fort Worth, Tex., WBAP, 476 meters. (Central Time.)
10:00 a.m. Opening cotton and grain quotations; weather.
11:00 a.m. Weather; cotton and grain quotations; Chicago and Kansas City livestock; Fort Worth cash grain, fruits and vegetables.
12:00 noon Market quotations; concert.
1:00 p.m. Market quotations.
2:00 p.m. Fort Worth cattle and grain.
2:30 p.m. Close on cotton.
3:00 p.m. Produce markets; business conditions.
4:00 p.m. Financial review.
7:30 p.m. Special features; concerts (except Saturday).
9:30 p.m. Special features; concerts (except Saturday).
11:00 a.m. Sermons; also 2:00 and 3:30 p.m. (Sunday).

Omaha, Nebr., WAAW, 360 meters. (Central Time.)
9:45 a.m. Opening hog market, Chicago and Omaha; estimated livestock receipts (five markets); Liverpool cables; weather; grain report; carlot receipts of grain (four markets).
10:45 a.m. Grain and livestock reports.
11:45 a.m. Progress of all markets; Omaha and Chicago livestock reports.
12:45 p.m. Close Chicago futures; repeat Omaha and Chicago livestock reports.
1:15 p.m. Repeat 12:45 p.m. Omaha and Chicago cash market.
8:00 p.m. Close Chicago, Kansas City and St. Louis futures; Omaha spot and livestock markets; agriograms, music, etc.

Pittsburgh, Pa., KDKA, 326 meters. (Eastern Time.)
9:45 a.m. Local livestock, crop and market reports.
12:00 noon Short summary on fruits and vegetables; weather, river and road conditions. (Saturday) Boston wool and fur market.
7:30 p.m. Special program for farmers (Thursday).
8:00 p.m. Complete fruit and vegetable, livestock, grain, hay, cotton and feed reports, and daily marketgram.
8:15 p.m. Music and entertainment.
9:55 p.m. Time signals; weather report.

Portland, Ore., KFEC, 360 meters. (Pacific Time.)
11:00 a.m. Musical concert (Saturday).
12:00 noon Weather report.
4:00 p.m. Musical concert.
6:30 p.m. Weather; summary of crop and market conditions (Wednesday).
9:00 p.m. Musical (Thursday).

San Francisco, Cal., KUO, 360 meters. (Pacific Time.)
9:05 a.m. Weather; news.
11:00 a.m. Market reports.
2:30 p.m. Sporting news.
3:00 p.m. Financial bulletin.
5:30 p.m. Health bulletin.
6:00 p.m. Sporting news (Saturday).
6:40 p.m. Weather report.

The Theory Of Communication By Radio

What You Would Like To Know

THE atmosphere is composed of atoms of oxygen nitrogen, helium, and other gases. This latter, however, is known to scientists as ether. A strange thing is that the ether may be so disturbed a wave motion will be caused similar to that which occurs in still water when an object is dropped into it.

To transmit voice or sound by radio, it is necessary first to create waves in different groups and of different strength, and then to catch or intercept them with an instrument which has the ability to change them into sound waves. To produce the waves, there must be a wire suspended above the ground ten to several hundred feet, and then to create between this space (ground and wire) an electrical pressure which changes its direction from one surface to the other and back again many scores of thousands of times a second.

By means of suitable transmitting instruments and devices, there is created an electrical pressure of from 1,000 and 20,000 volts which starts waves to radiate in all directions. In addition to these pressure waves, electromagnetic waves also are radiated from the wire in which current is flowing, and radio waves are produced.

The disturbance in a smooth body of water resulting from dropping some object into it resembles the action of the radio waves. The amperes of current put into the antenna correspond to the size of the object, while the voltage of electrical pressure represents the force with which the object is dropped or cast. The larger the object and the greater the force, the bigger the waves. The more amperes of current flowing into the antenna circuit, and the greater the pressure or voltage between the antenna and the ground, the stronger are the waves radiated.

Waves transmitted by radio (transmitting apparatus) always have a definite number per unit of time, and to hear signals from a radio station, receiving equipment must be put in resonance with the waves sent out by the transmitter. This is known as tuning.

The Vacuum Tube—Theory and Practice

The vacuum tube is one of the most interesting devices developed in radio. It is one of the most sensitive instruments known to science, yet it requires almost no knowledge of radio to use it in radio reception.

It consists of a glass bulb, somewhat similar to an electric-light bulb, from which nearly all the air has been removed and contains three elements, the filament, the plate and the grid.

The filament consists of a piece of high resistance wire, which is heated by a current until it is brilliant, as in an electric light. When thus heated, it throws off millions of electrical units, known as negative ions. A small sheet of metal, called the plate, to which the ions can go and so returned to the circuit, is constructed around the filament. These ions can pass only from the hot filament to the comparatively cold plate, and they cannot turn and go back. It is this feature which is utilized when using the vacuum tube as a detector for changing the radio waves of vibrating current into direct current impulses.

Some method of controlling the number of ions which reach the plate must be used and for this the grid is inserted. The grid consists of a closely-bound spiral or finely woven screen of wire surrounding the filament, and through which the ions must pass to reach the plate.

Interposed in the path from filament to plate, any electrical charge put into it from the antenna circuit, would either increase or decrease the ions reaching the plate and the current to the head phones.

When the tube is employed as an amplifier of signal strength, another characteristic of the vacuum tube is utilized. When properly connected a tube will not change the form of signals passing through it, but will add current from a battery connected in one of the circuits, to the signals, making them much louder when passed through head phones or a loudspeaker horn.

The vacuum tube is used in still another way for transmitting. In receiving the incoming high frequency currents are changed to direct current. For transmitting, the procedure is reversed and large tubes are used to change 350, 500, 1,000, or 2,000 volts of direct current into alternating current vibrating at radio frequencies of 50,000 to 2,000,000 per second.

It is well for you always to remember that in radio you handle minute currents. Every bit of energy must be put to useful work. Each additional instrument means additional loss of current. Simple sets are easier to handle and less likely to cause trouble by getting out of order than complicated apparatus. And all connections must be well made so all the current passes through.

What A Radio Receiving Set Will Do

A good receiving set will receive speech loud and clear without loss of voice characteristics. These are maintained to a much greater degree than through an ordinary telephone, permitting immediate identification of the speaker and also the conveyance of the true intent of the message through voice inflection.

Messages can be received over land, water, mountains, or valleys. The distance from which messages can be received by any particular equipment is affected by the physical character of the country. A receiving set will receive through sun, rain, fog or snow.

Hints

Many persons confuse wave length with distance, but please remember that wave length has nothing whatsoever to do with the distance a set can receive.

From a high-powered station you receive signals from a greater distance than from a low-powered station.

So little current reaches the receiving set from the transmitting or broadcasting station, that leakage of current, through faulty insulation, means a loss of power. If this leakage is large, it will be impossible for you to receive anything; therefore, insulation and perfect connections are of the utmost importance.

Another important factor is the height of the aerial. It should be on the roof or as high as possible otherwise from the ground. Height is more necessary where there are high buildings or trees close by. To get the best results it should be higher than the surrounding trees and buildings. The aerial should be eight or ten feet above the roof, if the latter is metal.

Ground Connections

It is necessary to run a wire from the "Ground" binding post on the receiver to the ground in such a way as to provide for perfect flow of the current. The best way of doing this is to attach the ground wire to a water pipe. The common method is to use what is called a Ground Clamp fastened tight around a water pipe, attaching the wire to the clamp. The pipe should be cleaned of rust or corrosion so as to make a perfect connection.

The antenna, or as it is generally called, the aerial, meaning the aerial wire or wires, absorbs energy in the form of oscillating currents from the radio waves which strike it.

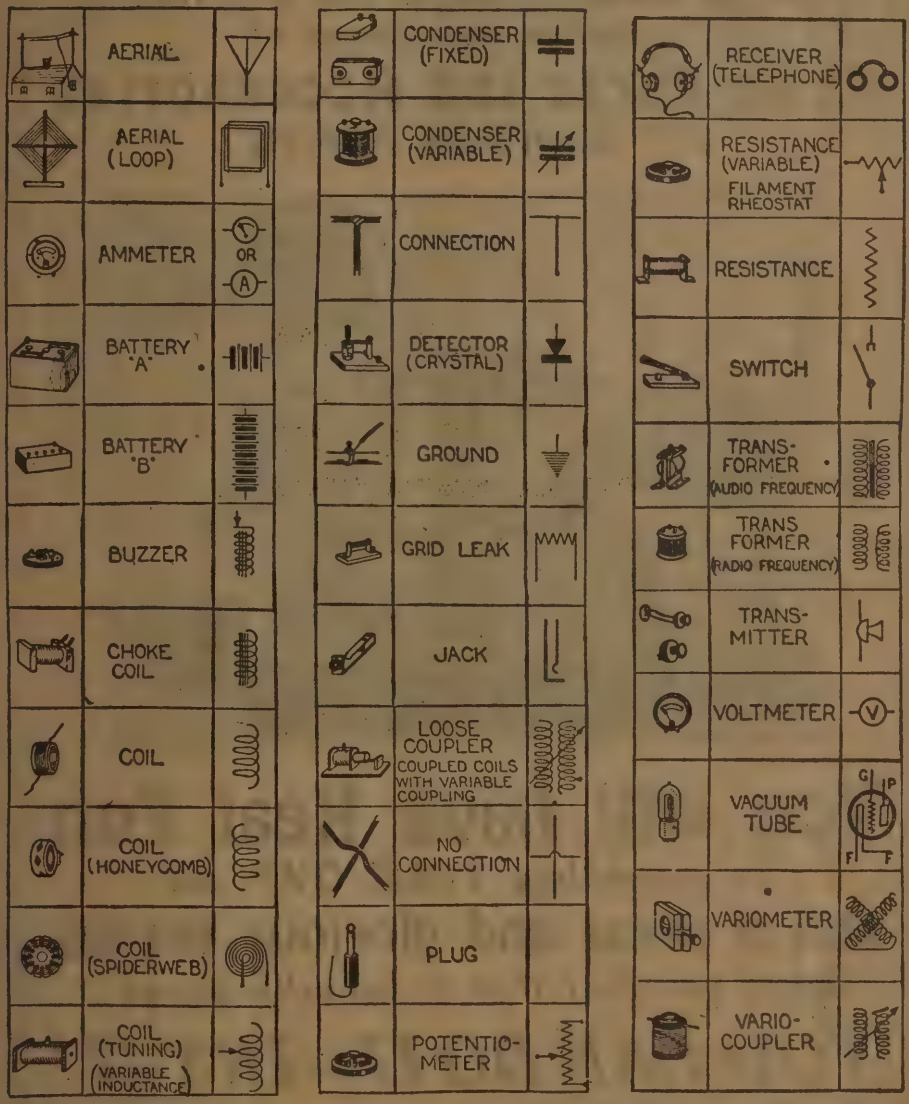
Usually a single-wire aerial of from 50 to 150 feet in length gives best results. It should be insulated fully at each end. The wire which runs from the aerials to the instruments, called the lead-in wire, should be soldered to the end of the aerial wire or attached otherwise securely, as with the use of one of our antenna connectors. While the lead-in wire may be attached at any point between the end of the aerial, the length of the aerial proper will only be the greatest distance from the point to insulator or end.

Symbols Used In Radio Diagrams

There is Lots of Fun in Building Your Own Set. These Pictures and Symbols Make It Easy to Understand the Blueprints and Diagrams.

You don't need to memorize any of these symbols to assemble a set; and you don't need to know any symbols to operate a set.

The First Illustration in Each Case is a Picture of the Object; the Other is the Symbol Used to Represent It.



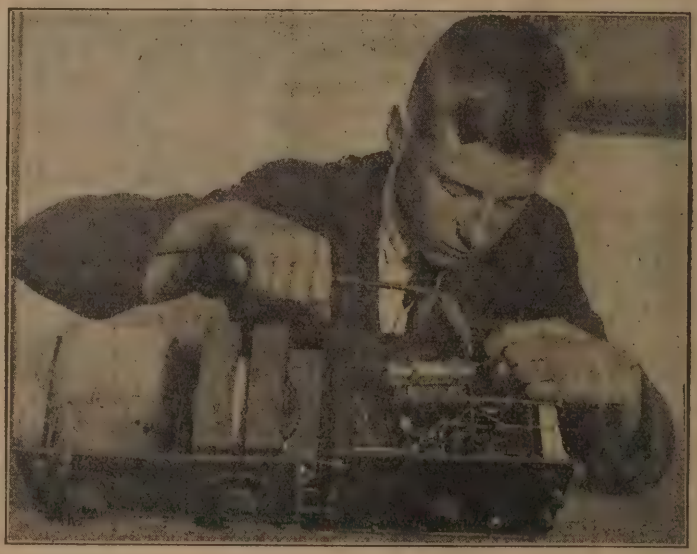
It is easy to build a set. A million have done it. *Engr. Courtesy of Consrad Co.*

Build Your Own Radio Receiver

On the following pages you will find a complete assortment of

Radio Parts and Accessories

AT BARGAIN PRICES!



You will have Real Fun

in assembling YOUR OWN set

and a great and glorious feeling

when you find that it actually works!

YOU CAN DO IT--TRY IT!

Sherma-Flex Two-Tube Loud Speaker Set

Here Is The Best All-Around Set We Know Of At Anywhere Near The Price—A Genuine Bargain!

Famous for selectivity, clearness, volume, distance

Postpaid

$43.78 *For all parts and accessories.*

Nothing else to buy. Anyone can assemble the parts and be listening in in a couple of hours or so after receipt.

The Sherma-Flex people claim this Two-Tube Set produces as great volume as the average 5-tube set. We believe this. It surely is remarkable.

A Wonderful Achievement

Think of operating a Loud Speaker on only two tubes and getting as good results as from many other three, four and five-tube sets! This set will surprise you.

The Sherma-Flex is a two-tube Reflex receiver in which only one of the tubes is reflexed. Makes use of a tuned plate impedence which eliminates the radio frequency transformer. Although it has but two tubes it gives the same reception as a four-tube set.

Users here in New York get Hastings, Neb.; Chicago, Cincinnati, Pittsburgh, and, of course, a multitude of nearer stations all on the loud speaker and without an outside aerial, merely by using a Ducon Plug (offered elsewhere herein), screwed into the electric light socket in place of an aerial! Marvelous tone, purity due partly to use of a fixed crystal detector. **Satisfaction Guaranteed.**

14B73 All Parts for Receiver

$27.72

- 1 Cabinet, 7x14 in.
- 1 Baseboard
- 1 Panel, 7x14 in.
- 2 Shermatran Transformers
- 2 23-Plate Sherman Kant-Short Vernier Condensers
- 2 Honeycomb Coils
- 1 Rheostat
- 2 Sockets
- 2 Micadons
- 1 Fixed Crystal Detector
- 1 Single Circuit Jack
- 6 Binding Posts
- 12 ft. Bus Bar
- 1 Bezel

Can You Beat This?

One of our own people here has heard Chicago regularly with large volume and perfect satisfaction on the loud speaker, using the most ordinary outdoor aerial, with wire twisted carelessly around wooden posts and iron pins and without any insulation, and during rainstorms!

14B55 All Accessories

$16.06

- 1 Rheostat
- 2 WD-12 Tubes
- 1 Pair Guaranteed Phones
- 1 Phone Plug
- 1 "B" Battery, 45 volts
- 1 "A" Battery, 1½ volts
- 1 Coil Aerial Wire
- 1 Coil Lead-in Wire
- 1 Ground Clamp
- 1 Insulator Tube
- 2 Insulators

Postpaid

14B79 Parts assembled (no accessories)..... **$37.72**

14B75 All Parts, unassembled, and accessories **$43.78**

14B57 Set Assembled, complete, with accessories, ready to use..... **$53.78**

Get this set if you wish long distance, clearness, and volume—sure to please you.

Remember, your tube replacement cost is small, because there are only two tubes.

Let us tell you

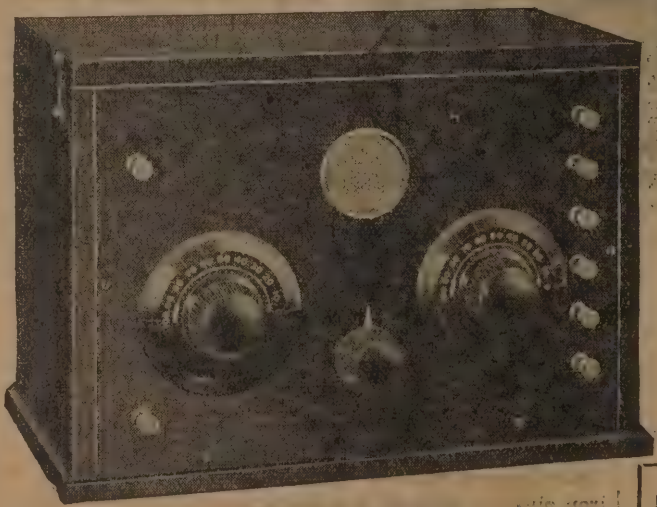
about our wonderful

D.K. SUPERIOR SET

The D. K. Superior Set is the result of an earnest desire to offer our customers a knock-down set that anyone can assemble, without the use of special tools or equipment, and when assembled will give satisfaction and the whole thing to cost only a few dollars.

This set was perfected in our laboratories and thoroughly tested in every way by our engineers and proved to be of wonderful merit before the first one was offered to the public.

It met with instant and continued approval and success, and many thousands have been purchased by discriminating buyers who could not find its equal at a price anywhere near the small amount we ask; in fact, it has proved superior to many sets for which two and three times as much is asked by others.



Simple

The D. K. Superior Set is simple to construct and operate. It has only one tube, but will give results equal to many sets having two.

All Parts and Accessories Postpaid

$21.95

We have made the price so low you need no longer be without this most satisfactory and economical means of bringing the most valuable entertainment right into your own home.

The Wonder Set

Very Superior to the old D. K. Set offered up to the present which has given universal satisfaction and about which the testimonials on page 27 and 55 testify. Hundreds more like them were written.

Never before had a Radio Set of the quality of the D. K. Superior been sold at our low price of only $21.95 for every part needed for reception—nothing more to buy. Only a couple of hours needed for assembling **You can easily do it from our simple directions.**

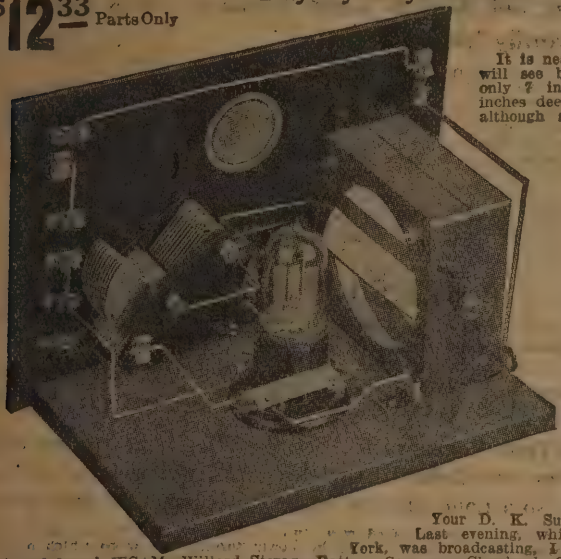
Free Examination—You Take No Risk

You can examine it at your express office, and if you don't like it you don't need to take it or pay a penny. If you accept it and don't like it, we will take it back and return your money.

Sales of the D. K. Superior Set Are Jumping

Day By Day Because Users Are Boosting It

Postpaid
$12.33 Parts Only



You Will Like It

It is neat and compact when assembled, as you will see by examining the pictures. It is then only 7 inches high and 10 inches wide and 6 inches deep. But when you use it you will say, although small, it surely is a wonder!

New Yorker Hears Utah and Cuba

I am more than pleased with the results I am getting from your D. K. Superior Radio Set. The following are a few of the stations I have heard: PWX, Havana, Cuba; DKWL, Salt Lake Telegram, Salt Lake City, Utah; WMAZ, Mercer University, Macon, Ga.; WSB, Atlanta, Journal, Atlanta, Ga.; NAA, U. S. Government, Arlington, Va.; WIP, Gimbel Bros., Philadelphia, Pa.; WGY, General Electric Co., Schenectady, N. Y.; WHAZ, Rensselaer, Polytechnique Institute, Troy, N. Y.; WHAS, Courier Journal and Louisville Times Company, Louisville, Ky.—Thomas McNulty, 2911 Sullivan Place, New York

D. K. Set Doing Good Work

Your D. K. Superior Radio Set is doing good work. Last evening, while WHN, Loew's State Theatre, New York, was broadcasting, I was very much surprised to tune them out and heard WCAM, Willard Storage Battery Company, Cleveland, Ohio, come in loud and clear. Later I thought I would just see what the little set would do on distance, and during the next half hour, tuned in and heard the following stations without any difficulty: WJAZ, Chicago Radio Laboratory, Chicago, Ill.; WKN, Reichman-Crosby Company, Memphis, Tenn.; KDKA, Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa.; WCAP, American Telephone & Telegraph Company, Washington, D. C., and WGY, General Electric Company, Schenectady, broadcasting from the New Kenmore Hotel Albany, N. Y.—L. H. Tavernier, 3413 Avenue I, Brooklyn, N. Y.

"What Distance Shall I Be Able To Receive?"

Please See Page 15 For Correct Information On This Subject.

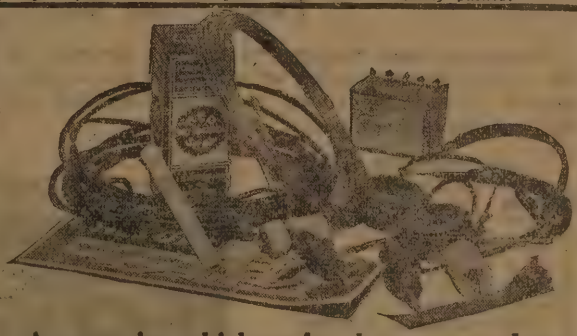
This Is What You Get

Our price of $21.95 includes every part or accessory for perfect operation, as follows:

- 1 7x10x6 cabinet, stained mahogany,
- 1 7x10 drilled panel,
- 1 Baseboard,
- 1 Special variometer,
- 1 Variable condenser,
- 1 Vacuum tube, WD-11 or WD-12,
- 1 Tube socket,
- 1 Grid leak and condenser,
- 1 Bezel,
- 1 Rheostat,
- 2 3-inch dials,
- 8 Binding posts,
- 13 Fahnestock solderless connectors,
- 4 Lengths shaped Bus bar (wires),
- 1 Pair head phones,
- 1 B Battery, 22½-volt,
- 1 Dry Battery,
- 100 Feet copper aerial wire, 7-strand
- 25 Feet insulated lead-in and ground wire,
- 4 Insulators,
- 1 Ground clamp,
- 1 Diagram and instruction sheet.

Our Liberal Guarantee

Very seldom does any one, even a novice, have any trouble in assembling this set from the directions which accompany it, but should you need any advice or help we shall be pleased to respond without obligation, on receipt of your request and information as to the difficulty. If for any reason after you have tried faithfully to follow our instructions, it should not prove satisfactory to you, we will refund your money, assuming that none of the parts have been damaged while in your possession and they are returned to us safely packed.



Accessories which make the set complete

14B46 D. K. Superior Receiving Set, complete, with all necessary accessories ..... Postpaid **$21.95**

14B74 D. K. Superior Receiver, parts only, without accessories, dry battery, B battery, insulators, aerial wire, ground clamp and vacuum tube. **$12.33**

LIBERTY TWO-STAGE AMPLIFIER

Used With A Receiving Set And A Loud Speaker. The Family May Listen In!

Our 2-Stage Amplifier connected to our One-Tube D. K. Superior Set, or to any other One-Tube Detector Set, will allow you to use the Loud Speaker. In this manner every one can hear without using head phones. This added amplification of sound will also permit you to hear stations further away. Our D. K. Superior 3-Tube Receiver is a combination (in one cabinet) of the Liberty Amplifier and the D. K. Superior 1-tube Receiver. All parts and accessories needed to make the Amplifier are:

1 Panel, 7x10	3 Jacks	
1 Cabinet, 7x10	2 Rheostats	
1 Baseboard, 6½x9½	2 Bezels	
2 Transformers	7 Binding Posts	
2 Tube Sockets	1 Blue Print	
2 WD-12 tubes		

Postpaid $23.69

14B35 Unassembled **$23.69**

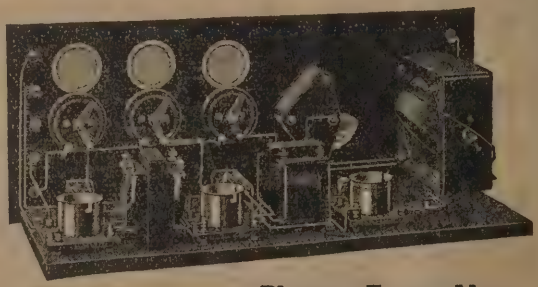
14B49 Assembled, ready to use.... **33.69**

See Loud Speaker Section For All Offers Of Loud Speakers.

D. K. Superior 3-Tube Long Range Receiving Set

The D. K. Superior Three-Tube Regenerative Set uses the same tuning unit as our famous D. K. Superior One-Tube Ultra Regenerative Receiver, with a Liberty Two-Stage Amplifier so a Loud Speaker may be used that all may hear.

Operation is extremely simple as all tuning is accomplished with two condensers. The tuning control is set at the wave length on which the desired station transmits and by slowly turning the knobs which control the condensers, the signal is received. The tubes are controlled by the rheostat, which increase or decrease the amount of current drawn from the battery. This set is universally serviceable as it is operated by use of dry cells which eliminates the necessity of recharging storage battery.



Pleases Every User.

Parts Only

1	Liberty Variometer
1	23-plate Condenser
2	Sherma-Tran Transformers
3	6-ohm Rheostats
3	Tube Sockets
3	Jacks
1	Drilled Panel, 7x18
1	Baseboard, 6½ x 17½
1	Grid Leak and Condenser
3	Bezels
7	Binding Posts
12 ft.	Bus Bar
1	Blue Print

14B47 Parts only. Postpaid **$26.93**

Customers have testified to having received, on a loud speaker, stations as far distant as 1,500 miles by using an indoor aerial, and even farther on outdoor aerials. No distance can be guaranteed but you may do as well or better. **Satisfaction Guaranteed.**

Accessories Only

2 WD-12 Tubes
1 Plug for same
2 45-volt "B" Batteries
1 pair Guaranteed Headphones
1 "A" Battery
1 Coil 100 ft. Aerial Wire
1 Coil 25 ft. Ins. Wire
1 Ground Clamp
Insulators and tubing.

14B51 Accessories. Regular price, $35.00 ..... Postpaid **$29.50**

14B38 All parts and accessories; nothing else to buy..... **$56.43**

Sales of [illegible]asts Knock-Out Sets

Postpaid
$12.33 P[illegible]

[illegible] what is called the "Knock-

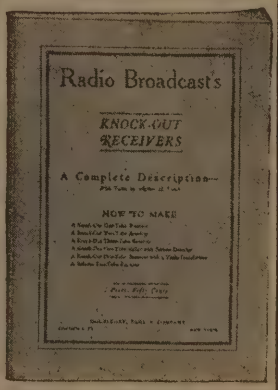
[illegible] perimenting constantly [illegible] ascientiously to our [illegible] but despite our [illegible] been holding

[illegible] Series we [illegible] us the

[illegible] nch who [illegible] ications, [illegible] l-known [illegible] tube [illegible] in the [illegible] ny and [illegible] Lynch [illegible] ouse has [illegible] ng coming

[illegible] asked Mr. [illegible] d, "because [illegible] ut Set per- [illegible] smile, for [illegible] siness.

Doubleday, Page & Co. say, this is the most satisfactorily series they know of.



[illegible] rder

An adva[illegible] can start with the one-tube s[illegible] lification without having to disca[illegible] ver any squealing, howling on radia[illegible]

This [illegible] emember

Another advantage is [illegible] ry easy to assemble any of the set, since with each order [illegible] parts for the one, two or three tube sets we give you free a book of 48 pages filled with particulars of how to proceed from the beginning and what the set has done for others. You are helped at every step and not required to proceed in the dark. Should you want the book in advance the price is 50c. We give free with orders for parts of the four-tube set two large blue prints in addition to full instructions and particulars. The price is $1.00.

If you order either the book or blue print in advance, you may deduct what you paid for them from your order for parts for the Knock-Out Set you want.

4B29 How to make a One, Two or Three-Tube Knock-Out Receiver . . . . . Postpaid **$0.50**

4B30 How to make a Four-Tube Knock-Out Receiver. Two large blueprints and instructions . . . . . Postpaid **$1.00**

One-Tube Knock-Out Set

"Radio Broadcast" says: "We have often heard of one-tube receivers that will actuate a loud speaker, but seldom do we have the experience of listening to such a performance; and in radio—hearing is believing—so we are justly skeptical of these 'wonder sets.' We spent many days and nights in an effort to produce such a single-tube receiver. Our work has resulted in an outfit that is simple and inexpensive to build, easy to install and operate, as well as being compact and portable. It will function with any kind of receiving tube now on the market and will operate a loud speaker over distance about equal to those it is possible to hear with the telephones on an ordinary Crystal receiver, when used with a headset it is capable of very long distance reception, extremely sharp tuning, and exceptionally clear reproduction of speech and music."

Georgia Man Hears Los Angeles On Loud Speaker

That this is conservative is shown by later experiences by Mr. Arthur H. Lynch, the editor, who announced the following: "At my home on Long Island, WDAP (Chicago) was so loud that we could hear him on a loud speaker, using a single UV-199 dry cell tube and only a 60-foot antenna." Mr. A. O. Linton, of Hapeville, Ga. (and many others) have beaten this record. He says: "Have received KFI (Los Angeles) five nights in succession, understanding every word spoken, and music with extra good volume. On two occasions, have been able to use loud speaker, understanding clearly every word about two feet from horn. Have received KHJ (Los Angeles) three nights this week, hearing distinctly every word spoken, and music volume good. Have received Mexico City, volume and clearness extra good. **Absolutely noiseless** except for static and spark." Mr. Russell Jane, Davenport, Wash., writes: "I tested it out last night, and some of the more distant stations I heard were: CFUC, 2,100 miles; WTAM, 1,850 miles; WJAZ, 1,500 miles, and WHB, 1,300 miles. I am using a C-301A tube and 90-volt B battery."

(NOTE: The cabinet illustration shown above is a combination cabinet for holding the radio set and batteries and is of special design which the builder may have made by his local cabinet maker if he wishes it instead of the standard cabinet which we offer. Also, we do not include in any Knock-Out Set a few little hardware items you can get locally.)

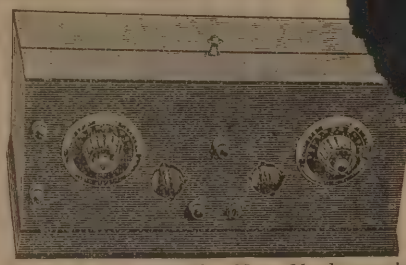
14B39 Complete Parts as listed on page 30. Regular price $24.95.. Postpaid **$20.62**

Parts Needed:

1 Audio-frequency transformer, 4½ to 1 ratio
1 Panel-mounting crystal detector
2 .0004 mfd. variable condensers
2 1/16 in. Formica forms, 2 in. long and 2 5
¼ lb. No. 28 cotton and silk insulated wire
8 Switch points and 8 hexagon brass 6/32 nu
2 Dials to fit condenser shafts
1 Front panel 7 in. high, 10 in. long a
1 Automatic filament-control jack. Mic
5 Binding posts, 6/32 screws
2 Spring mountings for Amperite
4 Feet of bus bar
2 Feet of No. 23 bare copper wire
2 Feet of small flexible cambric tu
1 Cabinet, 7x10

Accessorie
1 Headset, 1 Storage Ba
Tube, UV-201A, and Aer

14BS5 Accessories. Regular
price $40.00.....



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and the neighbors'
receiving sets. It offers a better combination of sensitivity, selectivity and quality for the total cost, than any other circuit the Radio Broadcast's expert has ever used. New York receives from Texas on the loud speaker, which, of course, you will admit is very good.

In this receiver there is a simplified circuit with only two tuning controls, giving results which are extremely surprising. The necessary parts to build this receiver are as follows:

8 Molded Binding Posts
2 .0005 Mfd. Variable Condensers
1 Audio Frequency Amplifying Transformers
1 Standard Tube Socket
1 6-Ohm Rheostat
1 UV-199 Socket
1 30-Ohm Rheostat
2 .0025 Micadons Fixed Condenser
1 .00025 Micadon Condenser with Grid Leak Mounting
1 2 Megohm Grid Leak
1 4½-volt C Battery
1 Cabinet, 7x14
5 Spider Web Coil Forms
1 7x14 Formica Panel
1 6½x13 Baseboard
2 3-inch Dials
6 Lengths Bus Bar Wire

14BS2 Regular price $40.25 — Postpaid **$33.17**

1 UV-201A Tube
1 UV-199 Tube
1 Storage Battery
2 45-volt Batteries
1 Pair Phones
1 Phone Plug
1 Antenna Equipment

14BS6 Accessories. Regular price $40.00..... Postpaid **$31.44**

The Sodion Tube, being a stable and non-oscillating detector, will immediately recommend itself to the reflex experimenters. The Sodion Tube Circuit is an extremely simple one and is completely described in the Radio Broadcast Instruction Book, showing how to make the one, two and three-tube Knock-Out Sets, which you can order from us.

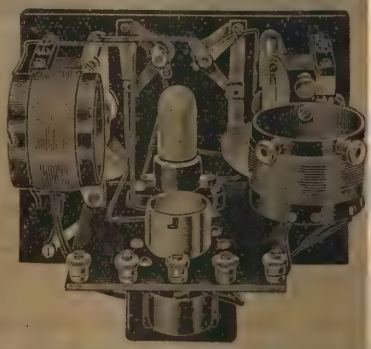
If you have, or if you contemplate, the construction of, the one-tube Reflex Set described on page 29 of this catalog, you may substitute the Sodion Tube for the Crystal Detector.

The use of the Sodion Tube by no means does away with the Crystal Detector in the ordinary reflex circuit. However, therer are many to whom the simplicity and the economy of crystal detection will continue to appeal. As a matter of fact, the R. B. Laboratory used it with regularity and satisfaction.

If you decide to use this tube, it is advisable to use both the potentiometer and the filament rheostat.

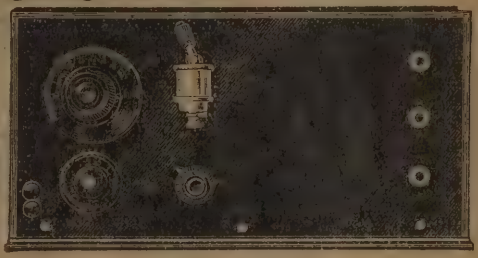
14B40 One Sodion Tube Socket Potentiometer, Sodion Tube, Filament Rheostat. Regular price, $11.50..... Postpaid. **$9.75**

14BS2 Complete parts to build the Sodion Tube Reflex Receiver, including the complete parts, same as 14B39. Regular Price $35.85... **$28.53**



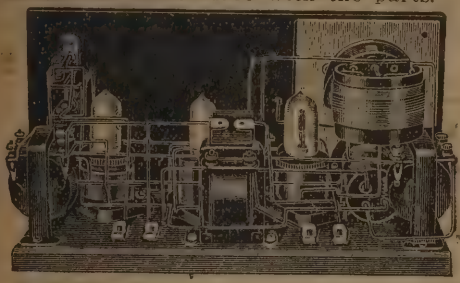
Three-Tube Knock-Out Set

What users say of anything should be interesting, and we quote what Mr. George Staggers of Snyder, N. Y., writes of this set: "I think so much of the Knock-Out with two steps of audio that I cannot resist writing you. I have built this little wonder from infancy, beginning with the one-tube, then the one step, then the two step. At this writing I am listening to WOC, Davenport, Iowa, with grave fear of waking my little girl who is sleeping 500 feet away from the house, with doors closed. **I have tried all kinds of sets, but this is the "baby" for me."**



The three tube Knock-Out receiver is a real D.X. getter and will repay the builder with interest for his time spent in assembling it.

The circuit is extremely sensitive and fine results will be obtained by following the plain directions which are given in the book of instructions (price 50c) which we furnish free with the parts.



List of Parts

1 Panel, 7x14
6 Binding Posts
1 Crystal Detector
3 Jacks—Filament Control
1 Rheostat, 10 ohm
1 Ballantine Variotran former — Panel Mounting
1 .0005 mfd. Condenser
3 Sockets
1 Baseboard
3 Audio frequency Transformers, 3 to 1
1 doz. Bus Wire

A few minor hardware items you can get locally are not included.

Accessories Needed

3 UV-201A Tubes, 1 00-ampere-hour storage battery, 2 45-volt B batteries, 1 paid phones, and plug.

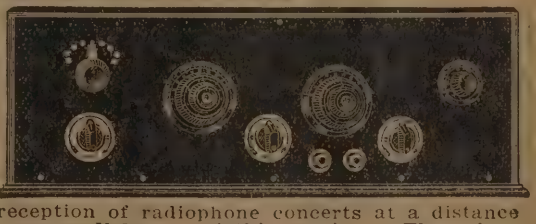
See offers elsewhere

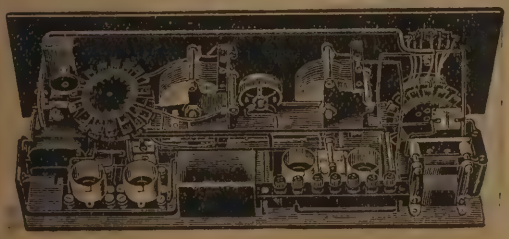
14B44. Parts ready to assemble, as per above list. Regular price $44.75.... **$38.86**

Four-Tube Knock-Out Set

In publishing the details of this set, the editor of "Radio Broadcast" said: "The receiver here described is without doubt the best, for the constructor who is looking for an all around efficient receiver.

The 4-tube circuit which is a recent development of the R. B. Laboratory, promises to be a very popular receiver. There are several outstanding features that we want to call to the attention of our customers who contemplate building this receiver. The features are **utter simplicity in tuning, freedom from all distortion of tone, selectivity in long distance reception and depndability.** Recent tests indicated that reception of radiophone concerts at a distance averaging 1,000 miles is a **regular accomplishment** of this receiver. There is a push-pull amplifier in the circuit which gives it exceptional volume in reproducing long distance broadcasted programs. The construction is very simple by using the two large blueprints and instructions (price $1.00) which we furnish free with the complete parts.





Parts to build this 4-tube receiver are:

1 Baseboard, 6½x20
1 Set Spiderweb Coils
2 Variable Condensers, .0005 mfds.
3 Vernier Dials
1 Switch Arm
7 Switch Points
2 Switch Stops
4 Sockets
1 Audio Frequency Transformer, 5—1
2 Comsco Push-pull Transformers
3 Rheostats
1 Panel, 7x21
2 Jacks (open and double circuit)
7 Binding Posts
1 Neutralizing Condenser
1 Grid Leak, 3 ohms
1 Grid Condenser
2 Micadons, .005 and .0025 mfds.
2 C Batteries
12 Lengths Bus Bar Wire
5 Lengths Sphaghetti Tubing

A few minor hardware items you can get locally are not included.

14B45 Regular price, $65.90..... **$52.72**

Build Your Radio Receiver Now

Complete Parts To Build This Receiver Postpaid $11.46

The parts for these knocked-down sets have been carefully tested, both individually and together, in the particular circuit for which they are intended. We furnish complete instructions and blueprint with each kit so that it simplifies and makes the building of these receivers foolproof.

Complete Parts and Accessories Postpaid $21.65

Cockaday One-Tube Receiver

This receiver is the original circuit as designed by Mr. Cockaday. It is composed chiefly of two variable condensers which are the sole means of tuning, and an especially built coil which is the heart of the set. The circuit is so designed that all objectionable stations or noises are trapped and are not allowed to go through to the phones. This set will not cause any inconvenience to your neighbors through re-radiation. Simple to build and easy to operate. It is one of the finest circuits Mr. Cockaday has ever designed and has met with instant approval throughout the country, especially in New York City where there are so many broadcasting stations and so many thousands of receiving aerials and much congestion in the air. This set works to perfection under these conditions. Regular price $13.75. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** Postpaid

14B29 Parts..... $11.46

1 Cockaday Coil
2 R. C. Co. 17-Plate Variable Condensers with dials
1 6-Ohm Tillman Rheostat
1 Na-Ald Socket
1 Grid Leak and Condenser
1 Nickel Plated Bezel
1 Switch Lever and Points
1 Single Circuit Jack
1 Stained Mahogany Cabinet
1 Hard Rubber Drilled Panel
1 Baseboard, 6½x13½
8 Binding Posts
12 feet Bus Bar
2 feet Spaghetti Tubing

Whether you choose parts or a complete set, get something and get busy enjoying the programs.

14B76 Accessories... $10.19 Postpaid

1 WD-12 Tube
1 pair Guaranteed Phones
1 Phone Plug
1 "B" Battery, 22½ volt
1 Dry Cell
1 coil 100 feet Aerial Wire
1 coil 25 feet Insulator Wire
1 Ground Clamp
1 Insulator Tube, 12 in.
2 Insulators, Nailit
2 Insulator Cleats
Blue Print

14B30 Set Complete, Unassembled, nothing else to buy..... **$21.65** Postpaid

Erla Duo-Reflex One-Tube Receiver

Complete Parts To Build This Receiver Postpaid $22.71

There is nothing new about this circuit, but the Erla Laboratory Engineers have given a great deal of effort in the design and construction of the parts used in this hook-up. Their transformers are so designed as to eliminate any objectionable distortion which may come from the ordinary transformer. The crystal which is used as the detector is fixed so as to eliminate the bother necessary to adjust one with cat whisker type. Although the set has but one tube, through the design of the circuit it gives an amplification of one stage of radio frequency, a detector and one stage of audio frequency which is sufficient to operate a loud speaker. Regular price $27.25. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

Complete Parts and Accessories Postpaid $33.54

14B33 Parts..... $22.71 Postpaid

1 Variocoupler
1 30-Ohm Tillman Rheostat
1 R. C. Co. 23-Plate Variable Condenser with dial
1 Na-Ald Socket
1 No. 1 Erla Reflex Transformer
1 No. 1 Erla Audio Transformer, 6 to 1
1 Erla Crystal Rectifier
1 Micadon Fixed Condenser, .001
1 Micadon Fixed Condenser, .002
1 Micadon Fixed Condenser, .00025
1 Single Circuit Jack
1 Stained Mahogany Cabinet, 7x14
1 Hard Rubber Drilled Panel, 7x14
1 Baseboard, 6½x13½
8 Binding Posts
12 feet Bus Bar
2 feet Spaghetti Tubing

SEE Pages 35 and 41

14B77 Accessories..... $10.63 Postpaid

1 UV-199 Tube
1 pair Guaranteed Phones
1 Phone Plug
1 "B" Battery, 22½ volt
3 Dry Cells
1 coil 100 feet Aerial Wire
1 coil 25 feet Insulator Wire
1 Ground Clamp
1 Insulator Tube, 12 in.
2 Insulators, Nailit
2 Insulator Cleats
Blue Print

14B34 Set Complete, Unassembled, nothing else to buy..... **$33.54** Postpaid

Liberty Improved Reflex Two-Tube Receiver

Complete Parts To Build This Receiver Postpaid

$27.71

Save money by choosing your parts from this page of bargains.

A few tools which may be found around the house is all that is necessary to construct a radio receiver from the parts we furnish you in these complete kits.

Complete Parts and Accessories Postpaid

$43.01

The Liberty Improved Reflex Receiver is a two-tube set so designed as to give one stage of radio frequency amplification, and two stages of audio amplification. Due to the original design and novel construction, the radio frequency transformer has been eliminated from this set. In its place we have a Honeycomb Coil tuned with a variable condenser which gives sharper and more selective tuning. This coil is so arranged that it has a negative feed-back to condenser in series. Certain to give you good results. Regular price $33.25. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

14B27 Parts only, complete unassembled **$27.71**

14B71 Accessories ..... **$15.30** **Postpaid**

2 Sherma-Tran Transformers
1 R. C. Co. 23-Plate Variable Condenser with dial
1 R. C. Co. 43-Plate Variable Condenser with dial
2 6-Ohm Tillman Rheostats
1 Grid Leak and Condenser
1 Fixed Crystal Detector
2 Na-Ald Sockets
2 Honeycomb Coils
1 Double Honeycomb Coil Mount
1 Single Circuit Jack
1 Stained Mahogany Cabinet, 7x14
1 Hard Rubber Drilled Panel, 7x14
1 Baseboard, 6½x13½
2 feet Spaghetti Tubing
8 Binding Posts
2 Nickel Plated Bezels
12 feet Bus Bar

We make it easy to assemble any set. A million others have done it! You can do it.

1 UV-200 Tube
1 UV-201A Tube
1 pair Guaranteed Phones
1 Phone Plug
1 "B" Battery, 22½ volt
4 Dry Cells
1 coil 100 feet Aerial Wire
1 coil 25 feet Insulator Wire
1 Ground Clamp
1 Insulator Tube, 12 in.
2 Insulators, Nailit
2 Insulator Cleats
Blue Print

Postpaid

14B28 Set complete, unassembled, nothing else to buy..... **$43.01**

Five-Tube Reinartz Receiver

Complete Parts To Build This Receiver Postpaid

$45.70

This is the standard Reinartz Circuit with the addition of two stages of radio frequency amplification. This set may be either operated on dry cell or storage battery according to the type of tube used. This set is one of the finest distance-getters on a small indoor aerial that we have ever seen. In New York it has received from Dallas, Texas, and Los Angeles on a loud speaker. It is extremely selective and works equally well in the ctiy or country. Regular price, $54.84. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

Complete Parts and Accessories Postpaid

$77.09

14B31 Parts **$45.70**

14B59 Accessories **$31.39**

2 Sherma-Tran Audio Transformers
2 Acme lt. F. Transformers
1 Special Reinartz Coil
1 Grid Leak and Condenser
3 6-ohm Tillman Rheostats
1 Federal Potentiometer
1 R. C. Co. 11-Plate Variable Condenser with dial
1 R. C. Co. 23-Plate Variable Condenser with dial
2 Micadon Condensers
5 Na-Ald Sockets
1 Single Circuit Jack
2 Double Circuit Jacks
1 Solid Mahogany Cabinet, 7x24
1 Bakelite Drilled Panel, 7x24
8 Binding Posts
1 White Pine Baseboard, 6½x23½
12 feet Bus Bar
5 Nickel Plated Bezels
2 feet Spaghetti Tubing

We are putting before you some wonderful bargains—send your order. We take all the risk.

4 UV-201A Tubes
1 UV-200 Tube
1 pair Guaranteed Phones
1 Phone Plug
1 "B" Battery, 45 volt
4 "A" Batteries
1 coil 100 feet Aerial Wire
1 coil 25 feet Insulator Wire
1 Ground Clamp
1 Insulator Tube, 12 in.
2 Insulators, Nailit
2 Insulator Cleats
Blue Print

Postpaid

14B56 Set Complete, Unassembled, nothing else to buy..... **$77.09**

Nothing To Be Gained By Waiting

The Set That Received 2-LO, London!

Work-Rite Five-Tube Neutrodyne Receiving Set

THE MOST POPULAR OF ALL RECEIVERS

This is one of the best and most satisfactory sets we offer and is equal to sets for which others ask $200.00 and more. You will make no mistake in choosing this one if you want to receive the greatest distance with the greatest clearness and volume and general satisfaction.

This set has received 2-LO, London, England, with the use of an ordinary single-wire aerial 100 feet long and 40 feet high. Also 1500 miles on loud speaker with the use of a common indoor loop aerial 18 in. square.

The Neutrodyne Receiver is easy to construct. By making the connections as shown on the Pattern Sheet, you will find it simple to tune in the broadcast programs loud and clear, not only from local stations, but those at great distances. The feature of this circuit is a special, very low capacity condenser, called the "neutralizing capacity." This condenser has a capacity of approximately 1 to 10 micro-micro-farads, although it is variable. When proper adjustments are made the only regeneration or oscillation which takes place in the set is in the detector circuit, which is subsequently amplified by means of the audio frequency transformers. The principal difference between this set and others employing radio frequency amplifying circuits is, that the capacity values of the vacuum tubes in the radio frequency stages are completely neutralized; moreover, the amplifier tubes do not regenerate or oscillate. This has been a disadvantage in other receivers using radio frequency amplification, even though they are designed as non-regenerative circuits. **Satisfaction Guaranteed.**

We offer you all the parts needed for building this set

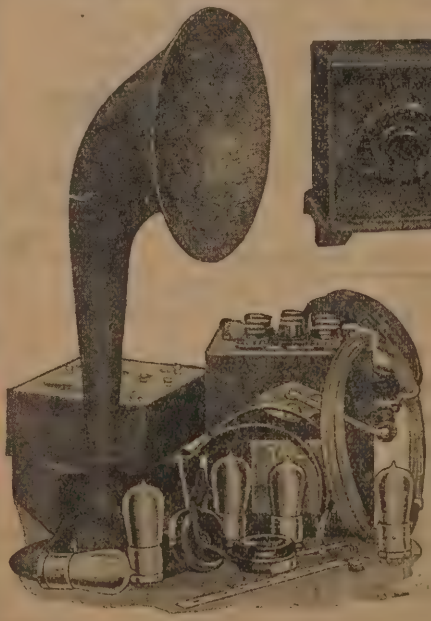
Parts Included

- 1 Set of Neutroformers and Neutrodons
- 5 Tube Sockets
- 2 Audio Transformers
- 2 Rheostats
- 1 Drilled Panel, 7x24
- 2 Jacks
- 1 Filament Switch
- 1 Baseboard
- 1 Grid Leak
- 3 Fixed Condensers
- 7 Binding Posts
- 12 ft. Bus Bar
- 2 ft. Spaghetti Tubing
- 1 Blue Print

14B37 Parts Postpaid **$38.33**

If you want a good long-distance set, don't hesitate to take this one, for it surely is all right.

14B53—Complete, with all accessories, including ear phones, as described above and below, but without loud speaker, at the special price of only $85.09.



Complete, Unassembled

Postpaid

$85.09

Loud Speaker Extra

13B18.....$9.95

Surely, here is your chance for a fine set, cheap!

Accessories Included in Price

- 1 Mahogany Cabinet, 7x24
- 5 Tubes
- 1 pair Guaranteed Phones
- 1 Phone Plug
- 2 "B" Batteries, 45 volts
- 1 Storage Battery
- 1 Coil 100 ft. Aerial Wire
- 1 Coil 25 ft. Insulated Wire
- 1 Ground Clamp
- 5 Insulators

What Outfit Shall I Buy?

By HUGO GERNSBACK, Editor of *Radio News, in Radio News*

Note — Mr. Gernsback is one of the pioneers in wireless communication, and what he has to say should be interesting and useful. The matter in parentheses is ours.—L. M. O. H.

This editorial is addressed to those who are thinking of acquiring a radio outfit for their entertainment. The editor is continually in receipt of letters from readers in every part of the country who wish to know what outfits they should buy. As a rule the correspondents fail to give some of the most important information, namely: First—for what service the outfit is intended; second—what range it should cover; and third—what price can be expended upon the set in question.

In the first place it should be understood that a radio outfit is not very different, as a utility, than an automobile, a phonograph, a suit of clothes or a pair of shoes. Individual taste, usually, is a predominant factor in the choice. Before an adequate reply can be made to anyone, the price, which probably plays the most important part, should be considered.

Crystal Sets

You can get good radio outfits at costs ranging from $10 to $500. The crystal outfits are famed for their clearness in reproducing sound, and, while they do not give very loud sounds, the tone is usually sweet and clear with a good pair of phones. Loud speakers—in the overwhelming majority of cases—cannot be used with them. With a crystal set, as a rule, radio concerts are not heard clearly further than 15 miles from a broadcast station.

(*We offer a first-class crystal receiver at* $3.95, *which together with head phones at* $2.95 *and complete aerial outfit at* $2.45, *makes the cost of the complete outfit only* $9.35. *By using a less complete aerial the cost can be reduced a dollar or so.*)

One-Tube Sets

We next have the single tube set. If this set is of the regenerative variety—and there is a number of good ones to choose from—the volume from local stations will be very much greater than with the crystal outfit. With such a set, an aerial and ground are, of course, required. The set cannot operate a loud speaker except under very unusual circumstances or in the near vicinity of a broadcast station. Single tube sets, unless they are of the radio frequency-crystal combination, or reflex-crystal combination, are never recommended for loud talker purposes by conscientious manufacturers or honest dealers. A single tube set generally gives very clear reception and good volume, is cheap to operate and fills every want for the man who does not care to expend more than $25 or $30 for the complete outfit, which figure includes the outfit, aerial equipment, two sets of dry batteries (both "A" and "B") and phones.

(*Our D. K. Superior One-Tube Receiver unassembled and all accessories is offered at only* $21.95. *It is exceptionally good. We do not know of a greater bargain. You can assemble it and have it in operation in a couple of hours or so. The Knock-Out one-tube Receiver we offer operates a loud speaker satisfactorily on short distances and many have received on very long distances on the loud speaker. It is exceptionally good.*)

One Or Two-Tube Sets Sometimes Ideal

From the one-tube set upwards it becomes largely a matter of how much the purchaser is willing to pay. The crystal and one-tube sets may be compared to the Ford car, whereas all the other larger and multiple tube sets can be compared to the higher priced cars. The Ford car does the service and takes its owner where he wishes to go, just as well as a $10,000 car does. It all comes down to the question of price and utility. As a matter of fact, sometimes the crystal or one-tube set is preferable to the large multiple tube sets, mostly for reasons of portability. A good one- or two-tube set is ideal where there is not much room to be spared at home or when the set is to be carried around for camping purposes, or by salesmen, and for the general traveler who wishes to take his outfit wherever he goes.

Multiple Sets—Operating a Loud Speaker

Coming now to multiple tube sets it should be understood that, as a rule, it takes a three-tube set to operate a loud speaker. While certain two-tube sets will bring in local stations with fair volume they cannot be relied upon to do so under all circumstances. It should be understood—and the writer has already mentioned this above—that the multiple tube set does not necessarily bring in any more distant stations than the single tube set. What it does, however, is to bring them in much louder. It might be said that the more tubes are used, the louder will be the broadcast reception; but unless the set is a very unusual one, it is not actually more sensitive than the well-designed single tube set. The exceptions to this are some of the well designed tuned radio frequency sets and the Super-Heterodyne class. Most of these sets cover greater distances than the single tube variety.

(*Our Sherma-Flex 2-tube Receiver operates a loud speaker perfectly on long as well as short distances. Please see the offer and read the experiences related there. Some say the volume equals that of any five-tube Receiver. And please note the low price!* Only $49.20 *with all accessories, and parts unassembled; or* $59.20 *assembled ready for use. We are proud of this outfit and strongly recommend that you consider the Sherma-Flex.*)

Up to and including a four-tube outfit, speaking generally, it is necessary to use either an outdoor or a good indoor aerial. So-called loop sets, unless they are exceptional, require at least four or more tubes. It is true that there are some three-tube reflex sets that work on a loop, but we doubt if such sets can receive from great distances. They will probably serve well enough for local stations.

How Much To Pay

So much for the technical side of the question. The next thing most people ask is, why outfits have such a wide variety of prices. Again the answer is that the make and style govern the price. You can buy a good pair of shoes for $3 and you can buy a good pair of shoes for $20, according to the material. Generally speaking, the higher priced sets come in better finished cabinets, the tendency now being towards "furniture" sets. Such apparatus ranges from $150 upwards, and may not work better, speaking of the radio end, than a set costing $60. The difference in price is made up in the cabinet.

How To Make Selection

When it comes to a choice when buying an outfit, the foregoing paragraphs will probably be a fair guide, but now comes the important question of how to select from the different makes. There may be fifty different five-tube sets on the market ranging in price from $60 up to $500. As a guide, we would say to the prospective buyer—buy only a well advertised set. As a rule, the advertised sets are made by reliable manufacturers who are known for their stability and their integrity.

(*Sometimes you can save money in buying a set on which thousands of dollars have not been spent for advertising, as for example, our D. K. Superior 1-tube and 3-tube and Sherma-Flex 2-tube sets. Anyone advertising sets of the high quality of these would have to charge you a good deal more than we do. We guarantee these sets, and everything else we sell, to be entirely satisfactory, so you are perfectly safe.*)

When To Buy

As for the best time to buy a radio outfit, that time is NOW. All the latest models are on the market this very minute. Do not let the argument that radio outfits will be greatly improved in the future deter you from buying a set. Of course radio outfits WILL be improved in the future. So will automobiles, houses, shoes and everything else.

CROSLEY

Wherever you go, in Summer or Winter, take a Crosley Portable along and you will always be popular and never lonesome.

The Crosley factory turns out 5,000 radio receiving sets per day, the demand being so great for these efficient receivers that they are now compelled to increase this capacity to 8,000 receivers daily.

That Crosley Radio Receivers have given complete satisfaction in the past is evidenced by the fact that, during the last twelve months the Crosley Radio Corporation produced more receiving sets than any manufacturer in the world. That the new line of Crosley instruments, illustrated herein, will give even better service is assured by the exhaustive tests to which each model has been subjected to in their laboratories and in actual use under all weather conditions.

Here is the place to buy—save 10%

Each Crosley Model is designed to give the utmost efficiency at the lowest cost. And we cut that cost 10%!

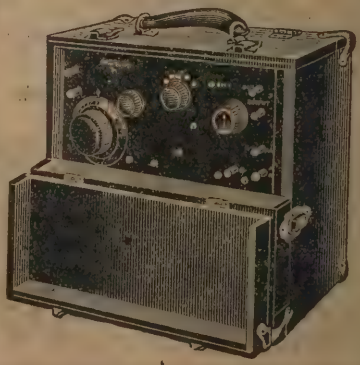
The new Model 51-P is a portable receiver mounted in a leatherette covered carrying case, so that the set may be conveniently carried here and there with ease. The circuit has two tubes using the well-known feed-back principal. Space is provided in the cabinet for all batteries and head phones, making a compact self contained receiver. Regular price $25.00 Buy it from Liberty and save 10%. Postpaid. Satisfaction Guaranteed.

14B42..... $22.50

Accessories Required For A Complete Outfit.

Two dry cells 1½ volt, two Radiotron W.D.-11 tubes, one pair Head Phones, 1 22½-volt "B" Battery, and aerial equipment. (See offers elsewhere herein.)

Crosley Portable Receiver 51-P



Full Line Crosley Receiving Sets

One-Tube Regenerative—No. 50

A new one-tube Armstrong Regenerative Receiver. We believe this to be the most efficient one-tube regenerative receiver ever put on the market. Regular price $14.50. Buy it from Liberty and save 10%. Satisfaction Guaranteed

Postpaid $13.05

Think of it!

Reg. Price $14.50

14B43..... Postpaid. $13.05

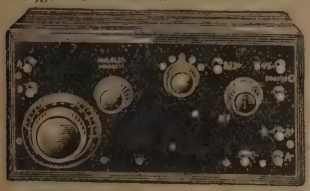
Necessary Accessories Required With This Receiver To Have A Complete Equipment:

One Dry Cell 1½ volt, one Radiotron WD-11 Tube, one 22½-volt "B" Battery, one pair Phones and aerial equipment.

Crosley 50-A, two tube amplifier may be added at $16.20

Two-Tube Regenerative Detector With One-Step Audio—No. 51

Two-tube regenerative receiver, the biggest selling radio receiver in the world. Gives loud speaker volume on local stations at all times and on distant stations under average conditions. Regular price $18.50. Buy it from Liberty and save 10%. Satisfaction Guaranteed.



Postpaid $16.65

Reg. Price $18.50

14B53..... Postpaid. $16.65

Necessary Accessories Required With This Receiver To Have A Complete Equipment:

Two Radiotron UV-201A Tubes, one 6-volt Storage Battery 60 ampere hour, one 45-volt "B" Battery, one pair Phones and aerial equipment.

Crosley 51-A one tube amplifier may be added at $12.60

Three-Tube Regenerative--No. 52

A new three-tube Armstrong Regenerative Receiver. Provides loud speaker volume on distant stations under practically all conditions. Regular price $30.00. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

Postpaid $27.00

Reg. Price $30.00

14B56..... Postpaid. $27.00

Necessary Accessories Required With This No. 52 Receiver To Have A Complete Equipment:

Three Radiotron UV-201A Tubes, one 6-volt Storage Battery 100 ampere hour, two 45-volt "B" Batteries, one pair Head Phones, one Loud Speaker, and aerial equipment. (See offers elsewhere herein.)

Two-Step Amplifier—No. 50-A

A two-stage amplifier using two tubes which can be added to the Crosley 50 receiver which permitting a loud speaker to be used. This amplifier will give twice the amount of volume when added to the Crosley 50. Regular price $18.00. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

14B58..... Postpaid. $16.20

Postpaid $16.20

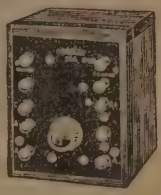
Much for Little!

Reg. Price $18.00

One-Step Amplifier—No. 51-A

A one-stage amplifier using one tube which can be added to the Crosley 51 receiver which permitting a loud speaker to be used on distant stations. Regular price $14.00. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

14B65..... Postpaid. $12.60



STOP HERE!

Some good people tell us the Trirdyn is positively without an equal. Try it! You run no risk.

Trirdyn Receiver—No. 3R3

This three-tube receiver gives the efficiency and volume of five tubes. We believe it is the most efficient receiver on the market at any price for bringing in long distance stations. Regular price $65.00. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

14B66..... Postpaid. $58.50

Postpaid $58.50

Reg. Price $65.00

Necessary Accessories Required With This Receiver To Have A Complete Equipment:

Same as accessories required for Crosley 52.

Trirdyn—No. 3R3—Special

The same as the Trirdyn 14B31 except cabinet is larger to contain "A" and "B" dry cell batteries and accessories. A beautiful set to match the highest grade of furniture and has small feet. Regular price $75.00. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

14B67..... Postpaid. $67.50

Same Accessories as for the Trirdyn 3R3.

Murdock Neutrodyne Receiver

The Murdock Neutrodyne represents radio at its best. It is the product of one of the oldest manufacturers, a pioneer who has been making radio equipment of the highest efficiency since 1904.

It embodies the famous Hazeltine Neutrodyne circuit, and is manufactured under the Hazeltine Neutrodyne patent.

Distant Stations can be tuned in with remarkable clearness and volume.

Local Stations can be tuned out readily, enabling you to choose the broadcast programs you want to hear at will—and without interference from other stations.

Easy to Operate. Any one can learn to operate this receiver with ease and skill. A station once located and the dial settings noted, that station can always be brought in again by returning to the same dial settings. The circuit uses five tubes, two radio frequency, 2 audio frequency and one detector.

This will surely please you. If you don't like it we will take it back.

Dependable. This receiver is guaranteed to give the utmost satisfaction under all conditions where reception is possible.

Appearance. The handsome solid mahogany cabinet and pleasing design make it acceptable to music or living room. It combines the highest engineering skill with the finest New England craftsmanship. Every detail of manufacture has been painstakingly carried out to make this reeciver an enduring instrument for home use. Regular price $140.00. Buy it from Liberty and save 30%. **Satisfaction Guaranted.** **Postpaid**

14B64 ..... **$97.50**

Necessary Accessories Required With This Receiver For A Complete Outfit.

One 6-volt 100 or 60 ampere hour Storage Battery, two 45-volt "B" Batteries, four Radiotron UV-201A Tubes, one UV-200 Tube, one pair Head Phones, one Loud Speaker (optional), and aerial equipment. Regular price and our price on each of the accessories mentioned above may be had by referring to later pages of this catalog.

The Famous Michigan Midget Receiver

The Michigan Receiver is popular because it is built for All Year Radio Service. Does all that is claimed for it—and is portable and ideally adapted for camping, touring and resort use.

Postpaid

$17.95

What It Will Do

It has many advantages over the moderate price receiving set. Installed in your home, it furnishes the family with a new center of interest. Music from the big cities, news items from the leading papers of the country, speeches by famous men, all the advantages of the broadcasting service are yours with the Michigan. Furthermore the Michigan has a greater range of reception than the average set. Many of our customers have reported records of from 300 to 1,500 miles during the Winter months. By following the simple instructions you can easily secure equal or better results in your home. This assures you of the best kind of entertainment during the long Winter evenings when there is a lack of interesting things to do in the home. Furthermore prices of grain and livestocks are broadcast several times a day. This feature alone is often worth far more to the farmer than the entire cost of the radio outfit. A long distance wonder worker, non-complicated and extremely efficient one-tube receiver. Guaranteed to give entire satisfaction. Two-lever control. Covers up to 600 meters. Operate on any dry cell or 6-volt tube. Regular price $27.00. **Postpaid.** Buy it from Liberty and save 31%. **Satisfaction Guaranteed.**

14B62 ..... **$17.95**

14B68 Receiver Assembled, and Accessories, Complete **$38.90**

Necessary Accessories Required With This Receiver For a Complete Outfit.

One 6-volt Storage Battery 60 ampere hour, one 22½-volt "B" Battery, one pair Head Phones, and aerial equipment. See offers elsewhere in this catalog.

FRESHMAN MASTERPIECE RECEIVER

You take no risk in selecting this receiver.

A Five Tube Set

Tuned Radio Frequency Set Built of The Finest Material in a Beautiful, Genuine, Solid Mahogany Cabinet

Postpaid $60.00

Wonderful Value—Sure To Please

THIS instrument is not only a remarkable value, but marks a distinct advance in the science of radio reception. In it the long-sought success in the use of radio frequency amplification has been achieved.

Since the beginning of radio broadcasting, Freshman engineers have unceasingly striven to simplify design, and rectify operation, so that the average man or woman could quickly and easily "tune in" a set and get the most pleasing results.

Out of this research experiment and application to an ideal, the new Freshman Masterpiece Radio Frequency Set has come as an answer to the great and insistent public demand for genuine quality of radio frequency.

By genuine quality we mean good, full, natural tone, loud and distinct; sharpness of tuning, which gives protection against interference from other stations and allows you to hold and enjoy quietly the station you desire to hear; ease of tuning, which makes an instrument practical and dependable in the home for all the family; long range, which multiplies the pleasure and opportunities of radio possession.

To accomplish these essential points, Freshman engineers embodied not only skill and genius in the design of this instrument, but gave care and precision in the manufacturre of each and every part thereof which is the only certain guarantee of true quality.

Freshman Masterpiece Set is a five-tube instrument. It has one step of Radio Frequency amplification, one detector, and two steps of Audio Frequency amplification.

Long Distance Getter

It is a long-range receiving set that can be operated to its full capacity by the different members of the family. Broadcasting is reproduced on this set in New York homes from distant stations as far as Minneapolis, Duluth, Springfield (Mass.), Atlanta and Havana. It is suitable for either head phones or loud speaking apparatus, and the volume and quality of tone is a genuine surprise to those accustomed to ordinary radio instruments.

You Wouldn't Want A Better Receiver Than This

Here is a certified list of stations heard in a two-hour test at Detroit, Mich., on September 2:

Station City

WWJ—Detroit News
CFCA—Toronto Star
WJAX—Cleveland
WGY—Schenectady
WEBH—Chicago
KDKA—Pittsburgh
WTAS—Elgin, Ill.
WJAR—Providence, R. I.
WHAM—Rochester, N. Y.
KFNF—Shenandoah, Iowa
WMC—Memphis, Tenn.
WRC—Washington, D. C.
WCAE—Pittsburgh, Pa.
WGJ—Chicago
WLW—Cincinnati
WSB—Atlanta
KGO—Oakland, Cal.
KHI—Los Angeles, Cal.

Most Beautiful Appearance

A glance at the illustration shows a handsome appearance in keeping with the inbuilt quality of this set. The cabinet is hand-rubbed and polished. Panel is 3-16 inch genuine hard rubber (no substitutes are used in Freshman construction), polished and engraved. Rubber capped binding posts marked for battery, antenna and ground connections are one rear of cabinet, three molded dials are all in harmony with the superior value embodied in this set.

Satisfaction Guaranteed

14B60 ..... Postpaid **$60.00**

Complete Outfit—Nothing Else To Buy

The complete outfit consists of the Freshman Masterpiece Radio Receiver and the following: One 6-volt 100 ampere-hour Storage Battery, regular price $20.00; two 45-volt B Batteries, regular price $10.00; four Radiotron UV-201A Tubes, regular price $16.00; one Radiotron UV-200 Detector Tube, regular price, $4.00; one pair 2000-ohm phones, regular price $10.00; one Loud Speaker, regular price $15.00; complete aerial Equipment, regular price $5.00. Nothing else to buy. Regular price $140.00. Buy it from Liberty and save 22%. Satisfaction Guaranteed.

14B61 Receiver and Accessories, Complete ..... Postpaid **$112.50**

Cutting and Washington Teledyne Receiver

Here is one of the best Receivers ever made

Two stages of radio frequency detector and two stages of audio frequency amplification— 4 tubes

Postpaid $139.00
Regular Price $160.80

You will like it.

The Cutting and Washington Radio Receiver is one of the most popular receivers anywhere. In appearance and efficiency it will satisfy the most critical. Its outstanding feature is a brown finished, mahogany cabinet, which is beautiful in appearance. The cabinet is shielded to prevent body capacity when the hands are close to the instrument for the purpose of tuning, eliminating electrical strays, unpleasant whistles and howls. It is surprisingly simple of operation, being tuned with three large knobs and dials at left of panel. One is provided with vernier adjustment which controls the wave length, insuring very fine adjustment and strong signals. The remaining dials and knobs control the regeneration which gives this set its tremendous range and volume. The four knobs on right of panel control the rheostats and potentiometer, which have no connection with the tuning, but permit the adjustment of the tubes. The set is universally serviceable as it is operated by use of either dry cells or storage battery. In the construction of this receiver, nothing has been spared to make it give the dependability of operation and performance that the ultimate owner has a right to expect of a high grade mechanism of this character. Screws and nuts are staked with solder, also lock washers or lock nuts. Every unit subject to electrical variation, such as condensers and transformers are individually tested for breakdown, capacity, etc. It embodies the use of the best known and proven factors in the radio art, and is in effect one stage of tuned, somewhat regenerative radio amplification plus a tuned regenerative detector. Regular price $160.80. Buy it **Postpaid** from Liberty and save 13%. **Satisfaction Guaranteed.**

14B50 ..... **$139.00**

Accessories required for a complete outfit—4 Radiotrons, 2 "B" Batteries, 1 Antenna Outfit, 4 Dry Cells or 1 Storage Battery and 1 pair Head Phones. **(See offers later in catalog.)**

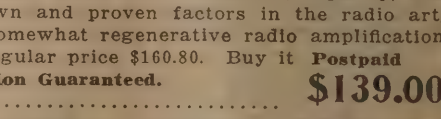
Atwater Kent Receiver — 5 Tubes

Combining Audio and Radio Frequency Amplification

We don't need to tell you—anything A. K. makes is all right.

Postpaid $91.00
Regular Price $104.00

The Atwater Kent Model 10B Receiving Set is an excellent example of modern Radio engineering. It includes two stages of tuned radio frequency amplification, detector, and two stages of audio frquency amplification. Exceptional selectivity, volume on distant broadcasts, efficiency, and great ease of operation are accomplished through the circuit arrangement used. Its range of operation includes all wave lngths in the broadcast band. With this set it is very easy to return to the dial settings for any given station once they are recorded. It is designed for tubes using ¼ ampere with the exception that a 1-ampere detector tube may be used if desired. Regular price $104.00. Buy it from Liberty and save 12%. **Satisfaction Guaranteed.**



14B48 ..... **Postpaid $91.00**

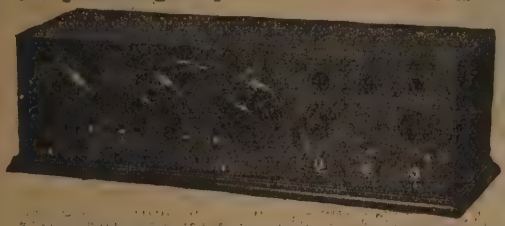
Accessories required for a complete outfit—5 Radiotrons, 2 "B" Batteries, 1 Antenna Outfit, 4 Dry Cells or 1 Storage Battery and 1 pair Head Phones. **(See offers later in catalog.)**

Famous Neutrodyne Receiver

Postpaid **$79.50**

Designed On Latest Principles

The circuit employed is quite different from other tuners and is designed for radio frequency amplification, with the neutralization of capacity coupling. By this principle, all oscillations may be utilized in the detector, with no effect on the preceding amplifiers. The circuit is well balanced and, as it prevents all



effects of capacity feed-back, **it is quiet in operation and especially free from tube noises. The set makes use of special transformers.** The tuning is accomplished by the three large dials, the first dial controls the antenna tuning, the center dial tunes the first radio transformer and the next dial, the second radio transformer. The set is highly selective and covers a broad band of stations. It will easily tune in any of the wave lengths now in use. One feature of this set, which is important, is that **it will tune in stations of the same setting at all times.** When using a small loop aerial, signals are received over a distance of 500 or more miles. Good results are also obtained on a 20-foot inside aerial, and, during a period of one hour, 12 to 20 long distance stations have been heard. These results are not assured for all conditions and it is always advisable, if possible, to construct some type of outside aerial, as the results are far more satisfactory. The construction of the instruments as well as the set itself and the instructions for connecting batteries are very simple. Regular price $140.00. Buy it from Liberty and save 44%. **Satisfaction Guaranteed.**

14B54 ..... Postpaid **$79.50**

Necessary Accessories For A Complete Outfit.

One 100-ampere hour storage Battery, two 45-volt "B" Batteries, four UV-201A Tubes, one UV-200 Tube, one pair Phones, aerial equipment and phone plug.

14B63 Receiver and complete accessories (nothing else to buy)..... **$124.00**

Suggestions For Ordering A Receiver

Every radio receiver we offer, whether assembled or unassembled, has been chosen with care as you may well know, for if you get something inferior from us, we will have to take it back, and there is no money in that kind of business. This is plain common sense.

How to Get Just What You Want. We are frank to say, if you are a novice or do not know a certain receiver by name or reputation, you may be in doubt as to which particular one to order. In such case, will you please tell us what you wish your set to do and what amount you wish to invest, and we will send you one we know will be just what you want? **Remember, please, every one we offer is good, and you take no risk in ordering anything.**

What Are Acessories? The offer of a receiver itself or the parts to make one, does not include what are called "accessories." Every receiver offered on pages 25 to 43 needs as accessories, one or more vacuum tubes, a pair of head phones, an A Battery consisting of one or more dry cells or storage battery, one or more B Batteries, and an aerial and ground outfit such as our outfit 1B14. A loud speaker is now generally regarded also as a necessity. A loud speaker can be used with all of these receivers except the D. K. Superior one-tube, the Cockaday one-tube, the Michigan Midget one-tube, and the Crosley one-tube sets, and with them if an amplifier is used. You can find out just what your accessories will cost by making a choice from the offers listed in this book. If you wish to have the benefit of the experience and judgment of our experts, you would do well, as we have suggested, to tell us what you want your receiving outfit to do and what you are willing to pay. If you are without some experience, **this probably is your best and safest course,** as you can depend absolutely on the accuracy of our guidance for good reasons.

Please read page 35 if you have not already done so. We are here to help you.

Fada "One-Sixty" Reflex "Neutrodyne"

This will please you.

Licensed Under Hazeltine Patents

The Fada "One-Sixty" receiver has two stages of radio frequency amplification, vacuum tube detector, and two stages of audio frequency amplification produces 5-tube results, although it uses only 4 tubes, thus achieving a decided saving both in first cost and upkeep. This saving, without loss of effectiveness is made possible through Neutrodyne Circuit, an invention of Professor L. A. Hazeltine, Professor of Electrical Engineering at Stevens Institute, and is the perfected outcome of several years' work.

Perfect Workmanship

Frequently things that appeal to our artistic taste are things simple in proportion and yet made with a precision of workmanship that we cannot but admire. Such is the nationwide reputation of Fada radio instruments and parts. Every switch, socket and rheostat is mechanically simple in design yet scientifically correct. This same perfection of design and care in workmanship has been carried to the utmost in the creation of the Fada "One-Sixty." Primarily it is an instrument for the home and every detail has been carried out with this in mind. The necessary adjusting dials have been kept to the minimum. There are **only three controls** that need adjustment to tune in stations a thousand or perhaps two or three thousand miles away.

Well-Known Fada Quality

The special inductances, variable condensers and tube sockets have characteristic Fada quality. The audio frequency amplifying transformers are specially designed for maximum amplification and minimum distortion with **absolutely no "howling."** The shelf on which the sockets are mounted also carries the A and B Battery binding posts, allowing all connections from the rear of cabinet. Two telephone jacks of highest quality permit plugging in phones to either detector or to two-stage amplifier are provided. A loud speaker may be plugged in jack marked "horn," or may be connected to two binding posts marked "output." A Push-Pull switch controls the filament current through all four tubes.

Fine Cabinet

The cabinet is carefully constructed by craftsmen who are familiar with every detail of high-grade furniture design and finishing. The panel is of condensite celeron. Regular price of receiver, $120.00 (not including tubes, batteries or phones). Buy it from Liberty and save 18%. **Satisfaction Guaranteed.**

Postpaid

14B52 Receiver only **$98.00**

Necessary Accessories For A Complete Outfit.

One 100 ampere hour Storage Battery, two 45-volt B Batteries, four UV Tubes, 3 UV-201A and one UV-200 Tubes, 1 pair Head Phones, Aerial Equipment and Phone Plug.

14B80 Receiver and Accessories, nothing else to buy **$142.50**

Garod Neutrodyne Receiver

Popular Because of its Wonderful Performance and Simplicity of Design

The Garod four-tube set is the outcome of a big demand for the Hazeltine Neutrodyne type receiver. It is so well balanced that it prevents all effects of capacity feed-back, making it very quiet in operation and free from tube noises. Eliminates interference entirely. Highly selective and covers a broad waveband. The tuning is simplicity itself. Being so well known to the radio world, elaborate description is unnecessary. It is a four-tube set giving the result of a five-tube set. Has two stages of radio, two of audio frequency one of which is reflex and the detector. Very selective, easy to tune, free from objectionable squeals. Finest materials and workmanship. Solid walnut, hand rubbed case. Bakelite panel. Tubes, phones, batteries and aerial not included. Regular price $135.00. Buy it from Liberty and save 22%.

Postpaid

$105.00

Satisfaction Guaranteed.

Postpaid

14B72 Receiver only **$105.00**

14B88 Receiver and Accessories, nothing else to buy **$149.50**

Same Accessories as required for 14B52.

MELCO SUPREME RECEIVER

Tuned Radio Frequency Receiver—Four Tubes—Assembled

The Melco Supreme Receiver utilizes the principle of Tuned Radio Frequency to secure its well-known long distance receiving radius. Tuned Radio Frequency Amplification sounds complicated to the average layman, but in reality it is exceptionally simple to understand. Radio Frequency in simple language means that the received radio waves are amplified or made louder through radio frequency amplifying transformers in conjunction with a vacuum tube before they reach the detector tube which in turn detects and rectifies these waves into audio (audible) frequency currents and they are then passed along to the audio frequency transformers to be amplified (made louder) for reproduction in either the head phones or loud speaker. Results accompanying this method of increasing sensitivity insure pleasing clearness of tone, absence of howling, distortion and instability of adjustments.

Just Think Of These Strong Features!

1. **Unsurpassed sensitivity—extreme long range.**
2. **Clean-cut selectiveness—one station at a time.**
3. **Simplicity of control—uniform dial adjustment.**
4. **Steady control of oscillation—suits many different tubes.**
5. **Operates on any antenna—outdoor wire, indoor wire, loop or lighting plug.**
6. **Perfect reproduction—loud speaker on one step of audio only.**
7. **Non-interference with others of the broadcast audience.**
8. **Durability—rugged construction and assembly.**

Postpaid
$127.00
Regular Price
$150.00

A Navy Man Discovered This Circuit

The Circuit which lies behind the excellent performance of the Melco Supreme is a development of Mr. Lester L. Jones, E.E., late of the U. S. Navy. The principles which he has incorporated in the circuit are being widely recognized as the basis of the ultimate broadcast receiving system, because of the fact that tuned radio frequency, when correctly adjusted, not only increases the range of the set but adds selectiveness at the same time. The Melco Supreme has thus been built to meet the new conditions in reception.

Many Users Say It Cannot Be Excelled

The receiver is both convenient in size and attractive in appearance. Overall dimensions are 22½ in. long, 7½ in. high and 8¼ in. wide. The front panel is of dark grained Bakelite with all controls and dials engraved in white. Woodwork is solid walnut. Battery connections are at the rear. Part of the top is hinged to allow easy inspection and insertion of tubes. Tables showing operating adjustments appear inside the hinged top.

The assembly of the Melco Supreme Receiver is compact, rugged and neat. Strong bus-bar wiring is used, and the four-tube sockets are mounted, within easy access from the hinged cover. All of the binding posts are mounted on a Bakelite strip at the rear, so that no unsightly wires may mar the appearance of the front after the set has been installed. We highly recommend this receiver for its exceptional clear quality of tone and great volume of reproducing speech and music from distant stations. Regular price $150.00. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

14B36 4-Tube Receiver ..... Postpaid **$127.00**

Assemble It Yourself And Save Some Money—Use Knock Down Kit

This radio receiving set may be had knocked down by the man who prefers to build his own. Each kit comes complete with everything necessary to build these sets. A book of instructions and blueprints makes the assembling of the various parts fool proof.

Melco Knock-Down Kit—Type K. D. 24—Four-Tube Set

Complete in every detail, including Drilled and Engraved Panel and Cabinet. Unassembled Four Tube Receiver.

14B6 Regular Price $100.00 .. Postpaid **$90.00**

Melco Knock-Down Kit —Five-Tube Set

Complete in every detail, including Drilled and Engraved Panel and Cabinet, Unassembled Five-Tube Receiver. Postpaid.

14B78 Regular Price $110.00 . **$100.00**

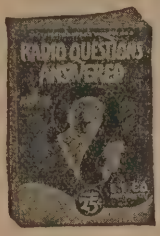
Additional Equipment

The complete outfit consists of the Melco Supreme Radio Receiver and the following: One 6-volt 100 ampere-hour Storage Battery; two 45-volt B Batteries, four or five Radiotron UV-1201A Tubes, one pair Phones, one Loud Speaker, complete Aerial Equipment.

For Those Who Want to Know All About Radio

We Offer the Following Really Worth-while Books

Radio Questions Answered



This book is proving as welcome to the radio public as the "100 Radio Hook-ups," which is now the fastest selling radio publication on the market. "Radio Questions Answered" was gotten up after a thorough canvass of dealers to find out which topics troubled most of the amateurs. Almost 100 questions are answered very fully and in language so simple that even the most inexperienced layman can easily understand. Put up in the style which has made the E. I. books famous all over the world. 52 pages, 2-color cover, 25 illustrations. Regular price 25c. Buy it from Liberty and save 28%. Satisfaction Guaranteed.

Postpaid **$0.18**

4B22.....

100 Radio Hook-ups

Contains a varied selection of hook-ups from the simple crystal to the more elaborate circuits, with a circuit for every requirement. Crystal hook-ups, combined crystal with radio and audio frequency amplifiers, non-regenerative, and regenerative vacuum tube circuits with and without radio and audio amplification. Amplifier units, with straight jacks, filament and switching arrangements, power amplifiers, choke coil, resistance coupled and transformer coupled radio frequency amplifiers. Includes all the latest types of Reflex, super-regenerative, super-Heterodyne, Neutrodyne, Reinartz, Flewelling, and Bishop. 52 pages, two-color cover. Regular price 25c. Buy it from Liberty and save 28%. Satisfaction Guaranteed.

Postpaid **$0.18**

4B9.....

Our Service Will Please You.

Radio Frequency Amplifiers

Shows the construction of the Radio Frequency Amplifying Transformer and gives complete constructional data. It shows the application of Radio Frequency to amplifying units that the amateur may already possess and gives 15 hook-ups showing practically every use Radio Frequency Amplifying Transformers can be put to. 32 pages, 15 illustrations. Bound in beautiful two-color cover. Size, 5½ x 7½ in. Regular price 25c. Buy it from Liberty and save 28%. Satisfaction Guaranteed. Postpaid

$0.18

4B8.....

You know what you are getting in dealing with "The Radio House of Friendly Service." Look through the book. Nearly everything is of standard, well-known, advertised make.

Henley's 222 Radio Circuit Designs

A complete and up-to-date collection of modern receiving and transmission hook-ups. Written and edited by a staff of radio engineers of wide, practical experience and technical training — Editor, John E. Anderson, A.B.M.K., formerly with the Western Electric Co. The book explains in simple words the principles of operation of every circuit described and the functions of all of the component pieces of apparatus, but carefully avoids needless theory. It is so simple that the novice will understand it and so thorough that anyone can build successfully without assistance any circuit it contains. Regular price $1.00. Buy it from Liberty and save 30%. Satisfaction Guaranteed.

Postpaid **$0.69**

4B1.....

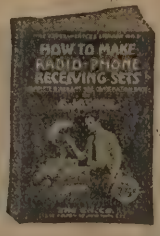
How to Tune Your Radio Set

Covers in comprehensive form the fundamental principles of tuning. The characteristics of radio waves are fully described and illustrated. Several chapters are devoted to the use and functions of all radio apparatus. The book describes how to tune such sets as the Reinartz, Flewelling, Neutrodyne, radio frequency amplifier receivers and others. 52 pages, 25 illustrations. Regular price 25c. Buy it from Liberty and save 28%. Satisfaction Guaranteed.

Postpaid **$0.18**

4B28.....

How to Make Radiophone Receiving Sets



A non-technical book for the beginner. Gives complete constructional data on the building of a complete Crystal Detector Set, Tuning Coil, Loose Coupler and a Single Audion Tube Set with Amplifying Units. It furnishes all dimensions and working drawings of every part that must be constructed by the amateur. 48 pages, 26 illustrations. Bound in beautiful two-color cover. Size, 5¼ x 7½ in. Regular price 25c. Buy it from Liberty and save 28%. Satisfaction Guaranteed.

Postpaid **$0.18**

4B7.....

Would you like help in deciding

which set to buy or make? Tell us what you would like to accomplish and about how much you think of spending and we will try to assist you.

Build One of These Popular Circuits — It's Easy

Clear instructions with diagrams

How to Make a Neutrodyne Receiver

This pattern gives the complete assembly, wiring, adjusting and tuning of a five-tube Neutrodyne receiver. This type of receiving outfit was brought out after extensive experimenting and is noted for its very efficient radio frequency amplification. Put up in packet, with full size blue prints for drilling and wiring and four-page instruction pamphlet. Regular price, 50c. Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

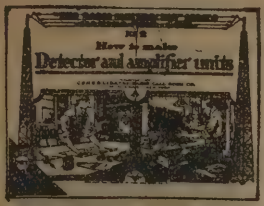
4B10 ..... **$0.42**

All About Aerials and Their Construction

These blue prints were made after practical erection of each aerial, and point out how simple it is to erect not only the proper aerial for your particular need, but how to erect this aerial in the most practical manner and at the least expense. Consists of 12 blue prints 8½ x 11 in. and one four-page instruction pamphlet, 8½ x 11 in. Regular price, 50c. Postpaid Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

4B19 ..... **$0.42**

How to Make Detector and Amplifier Units



This pattern was designed for detector and amplifying units especially adapted for use with our regenerative receiver. It is strongly recommended when the attachment of a loud speaker to that set is desired. Regular price 50c. Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

A book answers a lot of questions.

Postpaid

4B13. **$0.42**

How to Make a Reinartz Receiver

The original Reinartz Receiver is a very popular type due to its simplicity of operation and capability of long-distance reception. Full directions for building this receiver are given in this folder. Two blue-prints and instruction pamphlet in two-color manilla envelope. The connections of the set are shown plainly. Regular price 50c. Postpaid Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

4B15 ..... **$0.42**

How to Make a Reflex Receiver

The plans for the reflex receiver were gotten out only after considerable research work by our engineers. Most people have trouble with reflex receivers. It takes an expert to build one that will work satisfactorily. The trouble lies in the values of condensers, etc., in the circuits. If they are incorrect, the set is a dismal failure. The construction details of a reflex receiver, contained in this folder, are the results of their successful efforts. Regular price. Postpaid 50c. Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

4B16 ..... **$0.42**

How to Make a Cockaday Receiver

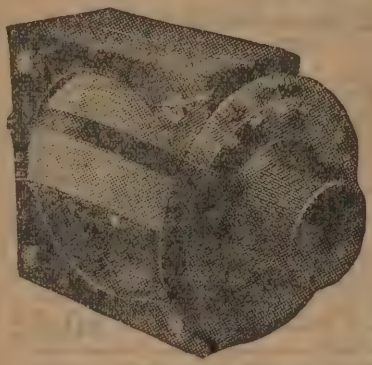
The Cockaday four-circuit tuner is one of the latest advancements in radio. Its main advantage lies in the fact that the set can be adjusted to a high degree of regeneration, and tuning accomplished over a wide band of wave-lengths without the necessity for re-adjusting the regeneration control. The dimensions, size of wire, number of turns, etc., are given, leaving nothing to the imagination. Postpaid Regular price 50c. Buy it from Liberty and save 16%. **Satisfaction Guaranteed.**

4B17 ..... **$0.42**

You can easily operate one of our Radio Sets

Simple directions are sent with each set. We show you step by step just what to do. You cannot fail to understand or to do the right thing or get good results. No reason why you and your family should longer be deprived of the great benefit of our radio sets will bring you. Remember, this is a house of service; we stick with you until you get good and satisfactory results.

A Good Variometer at a Popular Price



Made of Moulded Pathol Compact and Efficient. Fully Guaranteed.

Pathe Variometer

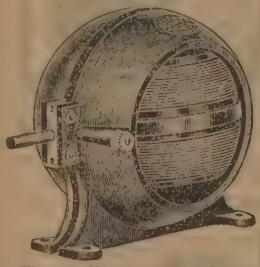
THE Pathe Moulded Variometer is distinguished by its neatness and compact size. Height 4⅛ in., thickness or width 1¾ in., length 4⅛ in. Suitable fittings for base or panel mounting are provided. The clearance between rotor and stator is very small, thus resulting in obtaining maximum inductance. It operates efficiently from 150 to 600 meters. Flexible pig tail connections between the rotor and stator insure perfect contact, eliminating noises. For cabinet sets this variometer is ideal, requiring as it does a minimum of space. Both rotor and stator are moulded of Pathol. It is ruggedly made and once set in position should not require further attention. It is neat in appearance and so moderate in price that it is sure to appeal to users of good, practical radio material. Regular Price, 8B3, $3.50; 8B10, $3.90. Buy it from Liberty and save 44%. **Satisfaction Guaranteed.** **Postpaid**

8B3. Without dial **$1.95**

8B10. With dial **2.25**

We pay the transportation anywhere in the United States

Pioneer Variometer



Postpaid

$3.60

Regular Price

$6.50

The smallest amount of metal parts are used in the construction of the Pioneer Variometer, which adds to the efficiency of the instrument. What metal parts are necessary to be used are of special brass, accurately machined, highly polished and triple plated. This Pioneer instrument is moulded of genuine bakelite under expert supervision. Proper moulding of Bakelite is one of the most essential qualities of a radio product. Wave length range from 200 to 900 meters. Regular price $6.50. Buy it from Liberty and save 44%. **Satisfaction Guaranteed.** **Postpaid**

8B11 ..... **$3.60**

Columbia Moulded Bakelite Variometer

Postpaid

$3.45

Regular Price

$5.50

A completely moulded genuine bakelite variometer, in mirror finished black. Green silk wire used throughout. Silk pig-tail connections. Stator moulded in two halves with **no metal bearing post in front nor in the rear.** Provides for split stators, permitting any class of hook-up. Base mounting legs are counter sunk in bakelite; panel mount screws at an angle insure firmer hold on panel; ¼ inch shaft. Wave length, with secondary condenser of .001 mfds. 745 meters. The universal instrument. Latest suggested hook-ups packed with each instrument. Also methods for change of instrument in each. Regular price, $5.50. Buy it from Liberty and save 37%. **Satisfaction Guaranteed.** **Postpaid**

8B6 ..... **$3.45**

Do you wish to get a radio set made up ready to use?

Do you wish to get parts and make up a set yourself?

Do you need accessories, such as tubes, batteries, etc.?

Well, friend, right here is the place to get them.

If you are experienced in radio, you will find we will give you the service you are looking for.

If you are "new at the game," we will help you, and be glad to do it. You are in safe hands here.

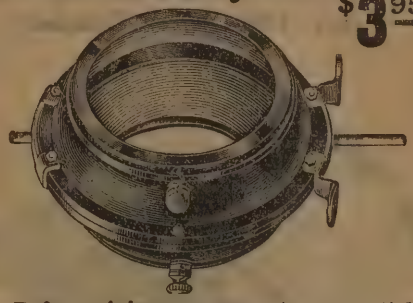
A Special Bargain — The Liberty for Postpaid $3.95

Liberty Variometer

This Variometer is believed to be mechanically and electrically without equal. Its use assures accurate and sharp tuning. All windings are perfectly made and connections cleverly concealed. Green silk windings on rotor and stator. Stator is made of two halves and rotor of one piece. Parts molded from genuine bakelite. Unexcelled workmanship. In appearance, construction and service-giving qualities this Variometer stands out in every respect as being right up to the minute. Shaft ¼ in. Reg. price $7.00. Buy it from Liberty and save 43%. **Satisfaction Guaranteed.**

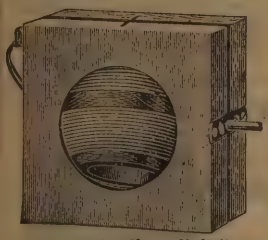
SB7 Shaft ¼' in..... Postpaid $3.95

You can depend on what we offer you as being good.



Before giving our name to any article it must be good and dependable and of the kind that will bring from users only words of praise. You can order this variometer with the certainty you are getting extra good value.

Baldwin Wooden Variometer



Postpaid $3.65

Every home should have a radio set.

An exceptionally well built variometer having stator and rotor forms of kiln dried wood. Will not shrink or warp. Windings are properly designed for efficient results, wave-length range from 180 to 600 meters. Shaft ¼". For either table or panel mounting. Regular price $6.50. Buy it from Liberty and save 43%. Satisfaction Guaranteed.

SB16..... Postpaid $3.65

Ambassador Coil

Postpaid $4.95

Radio is spreading like wildfire.

The Ambassador three-circuit tuner is the logical tuner for regenerative circuits. The workmanship and material entering into the construction of this tuner is the highest quality. This tuner will give excellent service, it is noiseless in operation as it is provided with large brass spring contacts which insures a perfect electrical connection. All metal parts highly nickel plated. Regular price $5.50. Buy it from Liberty and save 10%. Satisfaction Guaranteed.

CB24..... Postpaid $4.95

Would You Like To Have Your Questions Answered?

Radio may be something new to you. You may have some questions to ask. If you will write to us and state what is on your mind, we will answer you in a friendly, helpful sort of way.

We offer this service for the reason that we want to make a friend of you. We have gained a great many permanent customers by treating them just as we would like to be treated if our positions were reversed. We have answered their questions with our usual courtesy and consideration, with the result that they have appreciated it just as you will appreciate it, and when they needed anything we had to offer, the natural place for them to buy was from us.

We have found that nearly everyone who writes to us for a catalog or for information is fair and square, so we are willing to take a chance and make this offer of free information to you.

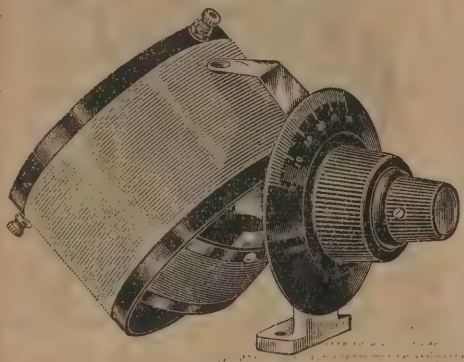
The only thing then that stands between us and helping you in this way is your telling us what you wish to know.

If you are thinking of buying a set or parts for a set, and are in doubt what to get, please give us an idea of what you wish to accomplish or about the amount of money you had thought of investing.

The plainer you are in explaining what you want, the better chance we have to render you a service. So write us a letter right now and tell us and we will do our best to help you.

A Most Efficient Coupler Without Taps

Lanco 180-Degree Coupler



No Soldering Necessary

No Taps Necessary

No Inductance Switches Necessary

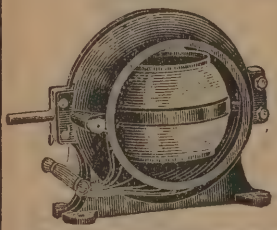
Postpaid

$3.95

A wonderful new coupler which requires no inductance switches, contact points, or soldering of taps, and gives volume and distance in a high degree. Range 200 to 600 meters. The primary is air-insulated, being wound with bright bare piano wire, on bakelite core, which is grooved. The winding fits snugly into these grooves thereby preventing contact. Inductance is varied by a contact arm which moves over the winding, tapping 90% of the turns. The secondary which fits into the primary is wound with green silk covered wire. Aluminum mounting with holes for fastening to baseboard, brass shaft fitting into dial with two knobs, one for primary and the other for the secondary completes the coupler. A beautiful, well made, efficient instrument. No soldering necessary. Regular price, $6.00. Buy it from Liberty and save 34%. **Satisfaction Guaranteed.** **Postpaid**

SB9 ..... **$3.95**

Pioneer Variocoupler



Postpaid

$3.95

Regular Price

$7.00

The Pioneer Variocoupler is wound with the same special green silk insulation as the Pioneer Variometer offered under Variometers in this catalogue. All parts are highly nickel plated and its outward appearance of moulded bakelite make it a business-like instrument. A feature of the Pioneer is its having the primary winding inside of the Bakelite housing reducing its electrostatic capacity. Wave lengths range from 200 to 900 meters. Regular price, $7.00. Buy it from Liberty and save 43%. **Satisfaction Guaranteed.**

SB12 ..... **$3.95**

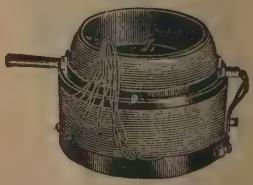
Pathe Variocoupler

Postpaid

$1.95

Regular Price

$3.50



Pathe Regular Type Variocoupler, moulded of Pathol, is mounted on ¼-inch brass shaft, operates efficiently on from 150 to 600 meters. The primary contains seven taps, perfect contact from the rotor is assured by flexible leads. Regular price $3.50. Buy it from Liberty and save 44%. **Satisfaction Guaranteed.** **Postpaid**

SB2 ..... **$1.95**

What help do you need in getting started in Radio? Maybe we can be of service.

Work-Rite Variocoupler

Tunes extremely sharp and is ideal for Single Circuit Receivers.

SB29 Reg. price $3.50. **Postpaid, $2.25**
Satisfaction Guaranteed.

The Golden Rule in Business

It would be pretty hard for any one to improve on the "Do-unto-others-as-you-would-have-them-do-unto-you" policy of dealing with people.

If you feel you would like to deal with a "Golden Rule" house, here it is.

By following this rule, which we do because it is right and it gives us pleasure to deal fairly and squarely with our fellow man, and consequently pleasing and making lasting friends and permanent customers of hundreds of thousands, we have built up possibly the largest retail Radio business in the city of New York, in this largest of cities, with its multitude of big mercantile institutions.

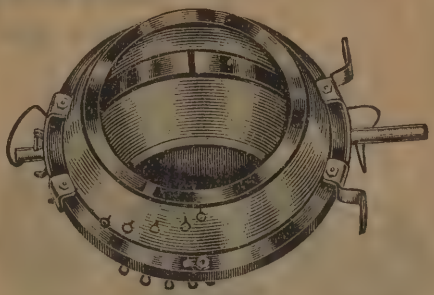
Absolutely the Best Variocoupler
For That New Set You Intend Building

The Liberty Variocoupler

Postpaid $3.95

This new Variocoupler represents perfection in getting all dimensions and number of wire turns just right with the present wave lengths that are in use today. Tunes twice as sharp as the ordinary 90 degree Coupler. Green silk wire wound on genuine bakelite with 12 tap. Rotor is also of bakelite with green silk winding. This improved Variocoupler is the result of intensive experimenting for the past two years by expert engineers. Before it was placed on the market we made certain that it was the pinnacle of perfection and durability. Regular price $7.00. Buy it from Liberty and save 43%. **Satisfaction Guaranteed.**

8B5 Shaft ¼ in..... **Postpaid $3.95**



FEATURES
Bakelite Housing.
Twelve Pigtail Leads.
Rotor Bakelite.
Green Silk Wire Throughout.

If you are looking for big value for little money, here is what you want. Satisfaction or money back.

What help do you need in getting started in Radio? Maybe we can be of service.

Polar 180° Variocoupler

Postpaid $2.45

Regular Price $3.50

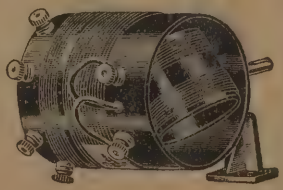
175 to 600 meters. The special nickel plated eyelets protecting the terminal taps of this Variocoupler make it the most practical and efficient instrument of its kind on the market. Green silk wire wound on genuine bakelite tubing. Primary and secondary windings are accurately spaced. Aluminum mounting brackets for panel or base mounting; ¼ inch brass shaft. Fahnestock spring clip connections. Reg. price $3.50. Buy it from Liberty and save 33%. **Satisfaction Guaranteed.**

8B1..... **Postpaid $2.45**

Stiers Three Circuit Tuner

Postpaid $3.85

Regular Price $5.50



The Stiers Tuning Coil or Three Circuit Tuner is the ideal tuner for the experimenter who wants to try different circuits. This tuner is ideal for three-circuit hook-ups and may also be used as a straight variocoupler in any circuit. Its construction is very rugged, having bakelite tubing throughout, wound with Litz wire and pigtail connections. Wave length range, 200 to 600 meters. Regular price $5.50. Buy it from Liberty and save 22%. **Satisfaction Guaranteed.**

6B27..... **Postpaid $3.85**

THIS FARMER NOW A FAN

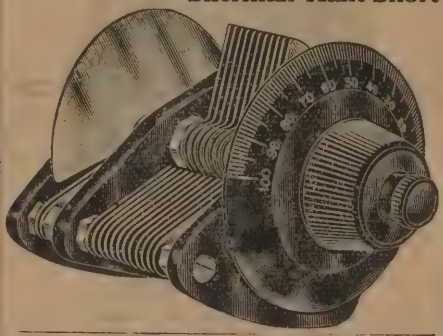
An instance of the practical use of radio is told of a fruit farmer who had 1,500 bushels of Bartlett pears for which he had been offered 50 cents per bushel. He realized that his pears were worth more money but had about decided to accept the offer, when he happened into the village bank where a radio outfit had been installed. Shortly the reports started coming in and they brought the information that buyers **in the city** were offering from 95 cents to $1.25 per bushel for the variety of fruit he had to sell. He stepped to the telephone and called up the city buyers and **sold his entire 1,500 bushels of pears for 75 cents per bushel on the farm.**

This farmer is now giving radio credit for the additional $375.00, which he would not have received had he not listened to a radio market report.

Plain Variable Condensers *Vernier*

A Condenser of Real Merit With Brass Plates and Bakelite Ends

Sherman Kant-Short Vernier Condenser



Postpaid

$3.65

This is not merely a part but is a real radio instrument. It has been designed by experts, made by mechanics and will last a lifetime. Has bakelite ends. The plates are brass which gives protection against short circuits which are so fatal to perfect reception. Remember always that your set is no better than your condenser. Price includes dial. Buy it from Liberty and save 33% to 40%. **Satisfaction Guaranteed.**

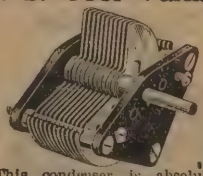
		Regular Price	Postpaid
7B6	26-Plate	$5.50	$3.65
7B7	46-Plate	6.50	3.95

All We Ask Is a Trial Order From You

What do you want that we do not list in this catalog? Please tell us. Probably we can supply. Let us become acquainted.

U. S. Tool Condensers

U. S. Tool Variable Condensers



Postpaid

$1.78

Regular Price

$2.10

This condenser is absolutely quiet in operation, having extra heavy aluminum rotor and stator plates so arranged that short circuiting of plates is impossible under ordinary use. End plates are constructed of the highest grade Celoron, making it a very desirable condenser. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
7B61	3-Plate	$2.10	$1.78
7B62	11-Plate	2.80	2.38
7B63	17-Plate	3.20	2.72
7B64	23-Plate	3.40	2.89
7B68	43-Plate	3.70	3.14

U. S. Tool Vernier Condensers

Postpaid

$3.69

Regular Price

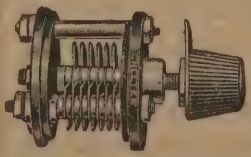
$4.50

This is the same type as our plain condenser but with a vernier adjustment built in. For reception over great distances and in districts where a number of local broadcasting stations are operating at the same time, a vernier condenser makes tuning very easy. Buy it from Liberty and save 18 to 20%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
7B65	14-Plate	$4.50	$3.69
7B66	24-Plate	4.75	3.89
7B67	46-Plate	5.50	4.37

YOUR INTEREST IS OURS

If we please you we have made a friend, and this is what we want.



Postpaid

$1.24

Regular Price

$1.50

YOU WILL FIND YOU CAN DEPEND ON US.

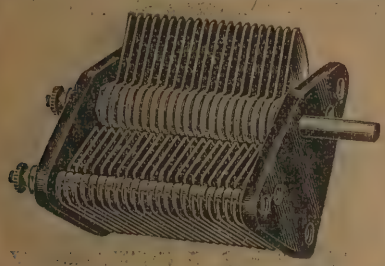
The Chelten Midget Vernier Condenser

The "Chelten Midget" is a small self-contained variable condenser, having seven stationary and six rotar plates. This permits much finer graduation of capacity than with the ordinary single plate vernier. This Midget Vernier can be mounted a short distance from the main condenser, eliminating body capacity on the large condenser while adjusting the vernier. The Midget Vernier is shunted across the terminals of the large condenser by connecting rotor and stationary plate terminals to corresponding terminals of the main condenser. After rough tuning is completed with the main dial, the vernier condenser can be rotated in either direction to clarify signals. The "Chelten Midget Vernier" is a guaranteed quality product; and is superior to any other type vernier. Mounted on a panel by drilling only one 5/16" hole. A lock nut holds the instrument securely in place. Regular price, $1.50. Buy it from Liberty and save 18%. **Satisfaction Guaranteed.**

7B1 ..... **$1.24**

The Condenser You Have Been Looking For A Guaranteed 43-Plate Instrument for Only—

R. C. Co. Variable Condenser



We recommend the use of this low loss condenser because it is now satisfying thousands of our customers.

This condenser is a precision instrument. An important feature is that the hard aluminum plates are accurately spaced. Stability is obtained by having the plates of sufficient thickness. They cannot bend in ordinary use. Only the highest grade materials and workmanship enter into the construction. Buy it from Liberty and save 20 to 47%. **Satisfaction Guaranteed.**

Postpaid **$1.68**

		Reg. Price	Postpaid
7B21	3-Plate, .00005 mfds.	$1.00	**$0.69**
7B22	11-Plate, .0003 mfds.	1.50	**.79**
7B23	17-Plate, .0004 mfds.	1.65	**.99**
7B24	23-Plate, .0005 mfds.	1.80	**1.29**
7B25	43-Plate, .001 mfds.	2.10	**1.68**

R. C. Co. Vernier Condenser

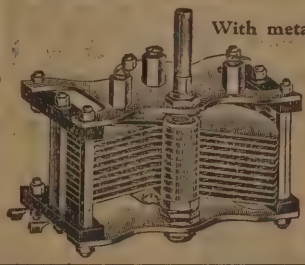
7B26. 23-Plate, same as 7B24, except has vernier adjustment and dial and knob; regular price, $3.50.....Postpaid $2.45

7B27. 43-Plate, same as 7B25, except has vernier adjustment and dial and knob; regular price, $4.00.....Postpaid. 2.95

G. I. Variable Condenser

The rotor plates of this condenser are grounded, a feature which makes it a highly desirable low loss tuning element. This condenser will increase the efficiency of your receiver and we recommend it highly to you. Buy it from Liberty and save 19 to 23%. Satisfaction Guaranteed.

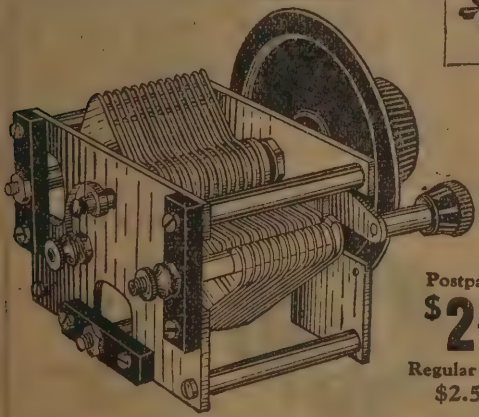
		Reg. Price	Postpaid
7B69	11-Plate, .00025 mfds.	$4.50	**$3.65**
7B70	13-Plate, .0003 mfds.	4.50	**3.65**
7B71	21-Plate, .0005 mfds.	5.00	**3.95**
7B72	43-Plate, .001 mfds.	5.50	**4.35**



With metal end plate

Postpaid **$4.35**

Regular Price **$5.50**



Postpaid **$2.25**

Regular Price **$2.50**

Prices do NOT include dial

Certified Low Loss Condenser

It is often impossible to receive a distant station while local stations are interfering, unless your set is equipped with a Vernier Variable Condenser. In use, the station is first tuned in roughly with the smaller knob and dial and then the Vernier Dial is used to bring about the final tuning adjustment. Vernier Condensers are an absolute necessity across the secondary of the tuning inductance in most circuits. In the single circuit set a Vernier Condenser in series with the tuning inductance give the fine adjustment that is so desirable. The certified low loss condenser is entirely new in design and is far superior to the old style non-vernier types. A few of the desirable features of this low loss condenser are the plates, which are of the highest grade aluminum, Pig-tail connections, conical bearings, extremely low minimum capacity, less than 5% of maximum value, and lowest loss—5% less than Laboratory Standard. Buy it from Liberty and save 10%. **Satisfaction Guaranteed.**

Plain

7B73	13-plate.....	$2.50	**$2.25**
7B74	19-plate.....	2.75	**2.47**
7B75	25-plate.....	3.00	**2.70**
7B76	45-plate.....	3.50	**3.15**

Vernier

7B77	13-plate.....	$3.00	**$2.70**
7B78	19-plate.....	3.25	**2.92**
7B79	25-plate.....	3.50	**3.15**
7B80	45-plate.....	4.00	**3.60**

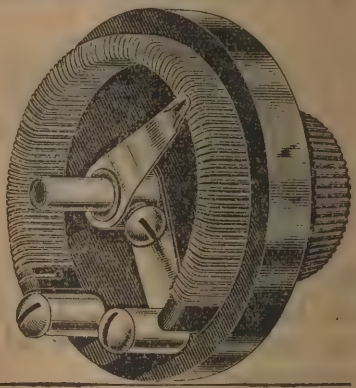
A Real Bargain

A Guaranteed Rheostat for Only— Postpaid 45c

An exceptionally well-made rheostat that will give extra good service and look well in any set. Wire resistance is wound on a heat resistance fibre strip set into a heavy moulded Bakelite base. Furnished with an attractive tapering knob that will add to the appearance of any set. These rheostats are made in all the necessary resistances to accommodate the various vacuum tubes. Buy it from Liberty and save 29%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
15B31	6-Ohm	$0.75	$0.45
15B53	20-Ohm	.80	.58
15B37	30-Ohm	.80	.58

Tillman Rheostat



Can one without knowledge of radio or electricity assemble and operate a radio set satisfactorily?

You can, with our directions, which are as plain as day. You would hardly agree that you are not as clever as the hundreds of thousands of men and boys inexperienced in radio who have done this very thing, would you? But remember always: We are here to help you.

BOOKS!

Please look in the Book section and you will see listed several books which surely you would enjoy reading.

"Bradleystat" for Perfect Filament Control

Carbon Rheostat

Postpaid **$1.69**

Regular Price $1.85

Bradleystat

This rheostat will give the finest filament adjustment and the maximum resistance may be varied from 30 to 60 or 120 ohms, as desired. The current is controlled by varying the contact pressure of graphite discs and the screw adjustment permits a critical current regulation. The rheostat is of very strong construction and will handle a 1½ to 2½ ampere current to detector, amplifier or 5-watt power tube. Porcelain case encloses graphite discs, shaft fitted with Bakelite knob. Regular price, $1.85. Buy it from Liberty and save 9%. **Satisfaction Guaranteed.**

15B3 ..... **$1.69**

Federal Telephone & Telegraph Co.'s Rheostat

Federal Rheostat

Federal rheostats combine simplicity of design, high quality of material and careful machining and assembly of parts. Comes equipped with large knob, provides ease of adjustment. Buy it from Liberty and save 7%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
15B35	6-Ohm	$1.00	$0.93
15B38	25-Ohm	1.10	.96

Postpaid **93c**

Regular Price $1.00

What Do You Want That We Do Not Offer In This Catalog?

Please tell us. We do not list herein everything we carry. Having the largest stock of radio sets, parts and accessories in New York, we can supply almost anything that may be wanted.

Put This One in Your Set and Notice the Difference

Framingham Rheostat

Big Bargain at Postpaid **54c**

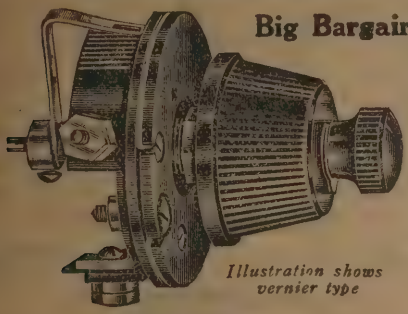


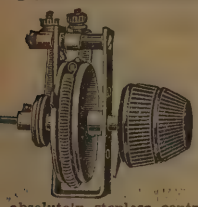
Illustration shows vernier type

Framingham rheostats are made of highest quality material throughout. The base is moulded of fine grade thermoplax. The resistance unit is wound on a special dry fibre strip mounted so that it cannot move or slip. The movable contact arm is made of high grade phosphor bronze. Comes equipped with Bakelite knob; all metal parts are highly nickel plated.

The vernier style is of the same general construction to which has been added an extra turn of resistance wire, having a separate control over the additional turn giving very fine adjustment. Regular price plain type, 75c.; vernier type, $1.25. Buy it from Liberty and save 27%. **Satisfaction Guaranteed.**

Plain Type		Postpaid	Vernier Type		Postpaid
15B39	6-Ohm	$0.54	15B32	6-Ohms	$0.89
15B40	20-Ohm	.54	15B33	20-Ohms	.89
15B41	30-Ohm	.54	15B34	30-Ohms	.89

Cutler-Hammer Vernier Rheostat



Perfect detector tube control. The detector is the heart of the receiving set. It is far more sensitive than the highly evacuated amplifier triode and requires accurate adjustments of both the filament current and the plate voltage. For this fine adjustment of the filament current, the C-H engineers developed this vernier rheostat, Type 11601-H1, built with watchlike precision to give absolutely stepless control. The main resistor is composed of a large number of small turns wound to give a wide divergence at the periphery, assuring single turn contact for most efficient operation. The vernier is endless and does not open the circuit to produce noise in the phones. The instrument is arranged for panel mounting and is beautifully finished in dull satin nickel and ebony black. Regular price $1.50. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

Postpaid

15B8 ..... **$1.27**

Amsco Rheostat

		Regular Price	Postpaid
15B43	6-Ohm	$1.00	$0.89

Pacent Rheostat

		Regular Price	Postpaid
15B44	6-Ohm	1.00	.89

We should be pleased to receive a trial order

Promptness Surprised Him

"The transformers bought from you are all right, and they came with a promptness that surprised me. I have been telling some of my friends about the stuff you are selling, and as soon as they are in the market you will be getting more orders from Pana. I am thoroughly satisfied."

—John J. Simpson, Pana, Ill.

AMPERITE

The "SELF-ADJUSTING" Rheostat

Eliminates all forms of hand rheostats in every circuit of amplification, both radio and audio frequency. Action entirely automatic. No moving parts, therefore louder and clearer music and greater distance. Prolongs life of tubes two to three times and prevents "burning-out" of tubes. Easily attached, simplifies wiring, permits compactness. Regular price $1.10. Satisfaction Guaranteed.

15B27 Type 4V-199 for UV-199 & C-299 on 4 or 4½ volts. $0.94

15B28 Type D-11 for WD-11, WD-12 on the 1½ volt dry cell ..... .94

15B29 Type 1A for UV-201-A or C-301-A on 6 volts .. .94

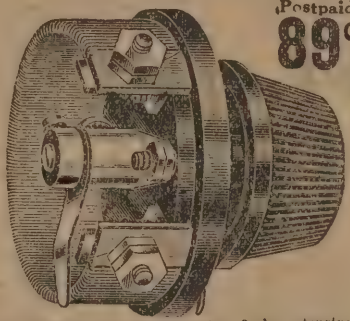
15B30 Type X for WD11 and WD-12 on 2-volt battery .94

"More Than Satisfied"

"I thank you very much for the service you have given me, and I am more than satisfied with the articles I have bought from you. I could not have got better service in any store in Baltimore than from you."

—W. McLean, Bingley, Baltimore, Md.

Stabilize Your Set With a Framingham



Postpaid **89c**

A high-resistance potentiometer finds extensive use in the up-to-date experimenter's station. Such a potentiometer is most valuable as a stabilizer in a receiving set using several stages of radio frequency amplification. The potentiometer also finds use in circuits employing gas content detector tubes, where close variation of the plate voltage is necessary; the potentiometer accomplishes this by very gradually adding to or subtracting from the "B" battery the voltage of the "A" battery.

Framingham Potentiometer

The Framingham Potentiometer is built along the same lines as the Framingham Rheostat listed elsewhere in this catalogue. The winding is nichrome enameled wire of 300 ohms resistance. Comes equipped with genuine Bakelite knob and necessary mounting screws. Regular price, $1.25. Buy it from Liberty and save 29%. **Satisfaction Guaranteed.**

Postpaid
15B36 ..... **$0.89**

Fada Potentiometer

		Regular Price	Postpaid
15B50	200 Ohms	$1.00	$0.79

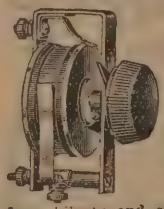
Amsco Potentiometer

		Regular Price	Postpaid
15B51	400 Ohms	$1.25	$0.94

Pacent Potentiometer

		Regular Price	Postpaid
15B52	375 Ohms	$1.25	$0.94

C-H Potentiometer



The C-H Potentiometer furnishes the precise control of the plate potential so necessary for the successful operation of the sensitive detector tubes. This potentiometer is of the drum type. The resistor (range 0-300 ohms) is wound by special machines and is so clamped as not to be displaced. This potentiometer may be quickly attached to your present panel for increased results. Regular price, $1.50. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

Postpaid
15B6 ..... **$1.28**

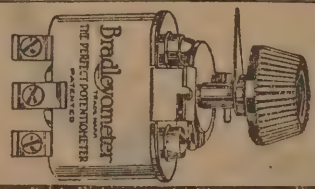
Federal Potentiometer

The Federal Potentiometer has a total resistance of 200 ohms and is provided with three terminals conveniently located. A reversible knob and shaft makes this instrument useful for either panel or table mounting.

We highly recommend it for use with dry cell tubes. Regular price $1.50. Buy it from Liberty and save 23%. Satisfaction Guaranteed.

Postpaid
15B10 ..... **$1.14**

Bradleyometer



This unit embodies the same compression resistance principle used in the Bradleystat. Particularly desirable for radio frequency and reflex circuits. Furnished with two screws and complete instructions for mounting. Two types of 200 or 400 ohms resistance. Regular price, 200 ohms, $2.00 and 400 ohms $3.00. Buy it from Liberty and save 12 to 18%. **Satisfaction Guaranteed.**

15B15	200-Ohm	**$1.64**
15B16	400-Ohm	2.64

PLEASE NOTE—You will do well to read the voluntary testimonials which are scattered through this book. They come from grateful customers. They tell of the service and satisfaction that will come to you if you deal with "The Radio House of Friendly Service."

"Will Recommend You"

"I thank you for your excellent service and the interest you show in your customers. The radio goods were received promptly and in good condition. Everything was just as ordered. I am perfectly satisfied. All of my future purchases will be made from your firm. I will recommend you to all of my friends."—Frank G. Richards, Knoxville, Tenn.

Honeycomb **Inductance Coils** *Reinartz*

Hears Long Distance on $21.98 Set

I am sending you a list of some of the stations that I have received on the D. K. Radio Set which I got from you. Here are some of them that came in clear and plain:

St. Paul, Minn.
Chicago, Ill.
New York City, N. Y.
Jacksonville, Fla.
Dallas, Tex.
Cleveland, Ohio
Springfield, Mass.
Davenport, Iowa
Kansas City, Mo.
Jefferson City, Mo.
Northfield, Minn.

Some of these stations are at least one thousand to fifteen hundred miles from here. It sure is a dandy set for the money.—Arthur A. Wischow, Minneiska, Minn.

Reinartz Coil

Due to the great popularity of the Reinartz circuit, a large number of inferior inductances have appeared on the market. Following our standard policy we are offering a coil that we can fully recommend. This coil is wound with green silk wire over a fibre frame with 21 tops properly spaced. Regular price $2.00. Buy it from Liberty and save 52%. **Satisfaction Guaranteed.**

Postpaid
6B25..... **$0.95**

Columbia Mounted Coil and Support

Licensed under De Forest Patents.

This mounted coil is a quality coil. The leading features are as follows:—The coil is impregnated with a celluloid cement which moisture or temperature will not affect. No varnish is used. The distributed capacity is low, and there is no leakage or shorting. The plug is genuine moulded bakelite, highly polished. The fibre straps are weather-proof, mounted properly. Coils are wound on impregnated tube 2 in. diameter with 1-in. face. Buy it from Liberty and save 30%. **Satisfaction Guaranteed.**

	No. Turns	Regular Price Mounted	Postpaid Mounted
6B1	25	$1.40	**$0.98**
6B2	35	1.40	.98
6B3	50	1.50	1.05
6B4	75	1.50	1.05
6B5	100	1.70	1.19
6B6	150	1.75	1.22
6B7	200	1.80	1.26
6B8	250	1.85	1.29
6B9	300	1.90	1.33
6B10	400	1.95	1.36
6B11	500	2.20	1.54
6B12	600	2.35	1.64
6B13	750	2.60	1.82
6B14	1000	2.85	1.99
6B15	1250	3.30	2.30
6B16	1500	3.85	2.69

Single **Coil Mountings** *Multiple*

Columbia Coil Plug

A bakelite moulded wedge-shaped plug with contact moulded in. Spring contacts assuring certain contact at all times. This plug is for coil mounting only, and provides for soldering coil ends or screw connections. A convenient plug for any sized coil. Reg. price $0.50. Buy it from Liberty and save 30%. **Satisfaction Guaranteed.**

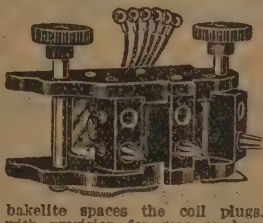
Postpaid
11B6..... **$0.35**

Panel and Coil Plug

Moulded of genuine bakelite, with moulded contacts, and bearing the same specifications as plug No. C-404. This plug provides two long screws for panel or base mounting and may also be used for coil mounting. The ideal combination plug, combining every possible method of mounting desired. Regular price, $0.50. Buy it from Liberty and save 30%. **Satisfaction Guarant**

Postpaid
11B5..... **$0.35**

Columbia Three-Coil Mounting



A geared mounting completely moulded of bakelite in which all metal parts are moulded. The movable plugs move freely as no tension is necessary with the geared reduction. Mounts on four screws threaded in back, nickel plated. Highly finished in black. Moulded bakelite spaces the coil plugs. Silk flexible leads with provision for rear or base outlet. Spring contacts insure positive connections. Eliminates body capacity. Any standard plugs will fit. Packed in green leatheroid cartons. Size 3 in. deep, 2¾ in. high, 4 in. long. Geared completely assembled with leads and terminals. Regular price $5.00. **Postpaid** Buy it from Liberty and save 30%. **Satisfaction Guaranteed.**

6B18..... **$3.50**

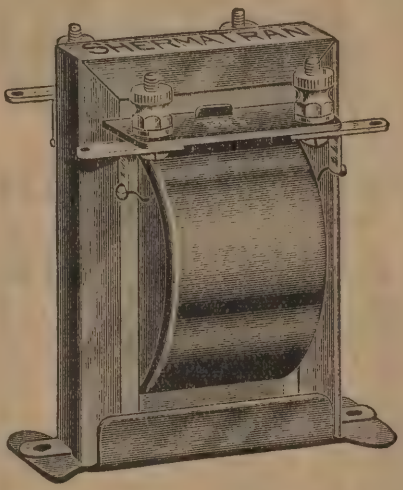
Columbia Two-Coil Mounting

This mounting is geared and reduced five to one ratio with a method that will make coils stay "put." Same specifications as three coil mounting. All standard plugs will fit. All metal parts moulded into the genuine bakelite. Completely assembled with leads and terminals. Regular price $3.50. **Satisfaction Guaranteed.** **Postpaid**

6B17..... **$2.45**

Loud Speaker Operation on One Stage

Under the proper conditions and with a good radio frequency receiver, this transformer is guaranteed to operate a Loud Speaker on one stage of audio amplification.



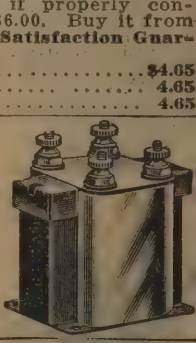
Sherma-Tran Audio Transformer

Postpaid **$4.65**

THE SHERMA-TRAN embodies the finest workmanship and materials and is built for use in the finest sets obtainable, a product for the radio engineer as well as the experimenter. It amplifies all audible tones from the lowest to the highest without distortion and with a clarity not surpassed by any transformer on the market today. The iron used in the lamination of the Sherma-Tran is the finest obtainable for this purpose. The coil windings are as perfect as can be produced with the highest skill and finest of materials. The frame is assembled without screws or pins by a lock joint which makes the base and cover practically one piece, giving the complete mounting a rigidity that eliminates the possibility of losses between the laminations. Shielding or grounding the frame is unnecessary on all standard circuits and it works equally well on all wave-lengths with any kind of tuning instruments if properly connected. Regular price $6.00. Buy it from Liberty and save 22%. **Satisfaction Guaranteed.**

19B14	3½ to 1	**$4.65**
19B3	4 to 1	**4.65**
19B4	5 to 1	**4.65**

Thordarson Amplifying Transformer



A new Thordarson audio frequency amplifying transformer. Shell type. Unusually high and constant amplification without distortion over a broad band of audio frequencies. Core is twice the cross section of that of the ordinary amplifying transformer and is made of special 36 gauge silicon steel. The coils have low distributed capacity. The high "Thordarson" standard has been maintained throughout. Buy it from Liberty and save 21 to 23%. **Satisfaction Guaranteed.** Postpaid **$3.95**

		Regular Price	
19B5	6 to 1 ratio	$5.00	
19B6	3½ to 1 ratio	4.50	**3.45**

We Offer You Only Reliable Goods

Federal Audio Transformer

Two Federal Transformers give an energy amplification of 160,000 times. The transformer is essentially a core of especially chosen silicon steel sheet, with a carefully built winding assembled integrally with the core and supplied with conveniently located terminals. The coils are entirely encased, thereby preventing mechanical injury. The core edges are black lacquered. An instruction booklet packed with each instrument fully explains connections. Regular price $7.00. Ratio 3 to 1. Buy it from Liberty and save 28%. **Satisfaction Guaranteed.** Postpaid **$4.95**

19B7

Jefferson Star Transformer

This transformer will give excellent results and the experimenter may use it in any stage he may desire. High grade construction throughout. All insulation is varnished cambric and silk. Binding posts are put on bakelite top. Cores are made of No. .007 silicon steel. Frame is heavy brass, stamped; brushed finish. Ratio 3 to 1. Regular price $3.25. Buy it from Liberty and save 12%. **Satisfaction Guaranteed.** Postpaid **$2.85**

19B21

"Your Prices the Cheapest"

"I have compared your prices with others and I have decided to order from you a set or the parts to make one." —C. E. Reynolds, Branson, Colo.

A Popular Type Transformer

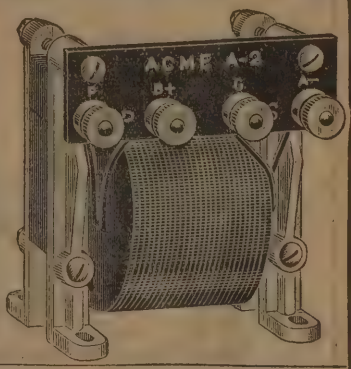
Three Stages Of Audio Amplification Without Distortion By Using

Acme A. F. Transformer

Postpaid **$3.85**

Acme Transformers are free from distortion. The laminated iron core is held in position by an aluminum frame which also act as feet. Binding posts mounted on Bakelite panel. Regular price $5.00. Buy it from Liberty and save 23%. Satisfaction Guaranteed.

19B18.....



IMPORTANT

The Liberty M. O. House is exclusively mail order. We do no over the counter business. We cater entirely to your needs. What service can we render you? Please tell us. We want to be of help to you.

All-American A. F. Transformer

A specially shielded audio frequency transformer possessing high amplifying power. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

	Ratio	Regular Price	Postpaid
19B17	3 to 1	$4.50	$3.69
19B16	5 to 1	4.75	3.79
19B15	10 to 1	4.75	3.79

Amertran A. F. Transformer

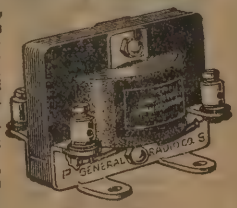
The Amertran Audio Frequency Transformer may be relied upon for perfect results in any standard audio frequency amplifying circuit. The core is made of high grade iron, shielded, making it neat in appearance and sturdy in construction. Ratio 5 to 1. Regular price $7.00. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

Postpaid

19B19..... **$5.95**

General Radio A. F. Transformer

The General Radio Company transformer is a compact audio frequency transformer having four large brass, highly-nickeled plated binding posts provided for connections. A feature of this transformer is its purity of tone in reproducing audio frequency currents. Ratio 3 to 1. Regular price $5.00 Buy it from Liberty and save 23%. Satisfaction Guaranteed.



Postpaid

19B25..... **$3.95**

Erla A. F. Transformer

The celebrated Erla Transformer with which wonderful results in reception have been obtained by a multitude of users. Unequalled purity of tone and freedom of disturbing noises result from its use. Buy it from Liberty and save 22%. Satisfaction Guaranteed.

	Ratio	Regular Price	Postpaid
19B12	6 to 1	$5.00	$3.85
19B13	3½ to 1	5.00	3.85

AN EXPERT'S OPINION

Mr. J. C. McQuiston, Advertising Director of the great Westinghouse Company, which owns and operates the broadcast station KDKA, says:

"More people listen in to religious services than to any other feature on the radio program."

Here are the grateful expressions of a few of the multitude who the Sunday Services:

"The words lift me to a higher level. I feel I can go out on the morrow and into my work in a bigger way a better man."

"Some in my home who do not go to church listen to the wonderful sermons and singing over the radio."

The Right Transformer For Your Reflex

In all Wave Lengths and for all Stages

No Better Goods Anywhere Than Acme

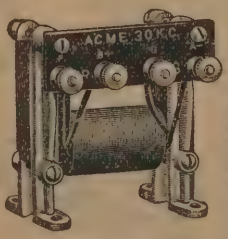
Acme R. F. Transformer

Postpaid $3.95

The Acme Apparatus Co., pioneer Transformer and Radio Engineers and Manufacturers, have devoted considerable time to the study and development of Amplifying Transformers. This company was the first to have an audio amplifying transformer on the market for amateur and experimental use and would have been the first with radio amplifying transformers had they desired to market the transformers made in the early development. The functions of a radio frequency transformer in conjunction with tubes is to amplify the received energy when existing at radio frequencies; this is before detection and the function of audio frequency transformers when the energy exists at audio frequencies or after detection. Radio Frequency amplification is strongly recommended for small and interior antennas or for long distance reception. Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
19B10	R 2, to be used as the first stage transformer ...	$5.00	**$3.95**
19B9	R 3, to be used as the second stage transformer ...	5.00	3.95
19B8	R 4, to be used as the third stage transformer ...	5.00	3.95

Acme Superheterodyne 30 K. C. Transformer



Postpaid $3.95

Many circuit are being devised for using long wave radio frequency transformer and, as transformers and radio engineers and manufacturers, the Acme Apparatus Company has developed the 30 Kilocycle Amplifying Transformers to fill the demand for an efficient unit of this type. Specifications: 30 K. C.; paper layer; special silicon steel complete iron core with definite air gap; aluminum die castings with elongated holes in feet for fastening; practically equal amplification over from 25 to 35 kilocycles; may be used in cascade for several stages. Regular price $5.00. Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

19B23 ..... **$3.95**

Any Questions You Would Like to Have Answered?

Have you any questions? Is anything not clear? Just ask us and no matter what you desire to know we will try to answer you and help you reach a satisfactory conclusion.

Erla R. F. Transformer

This transformer is widely known as being one of the best on the market. It has been used in various circuits and has demonstrated its ability to perform satisfactorily. Mounted in a neat metal case with connections brought out to binding posts, plainly marked. Regular price $5.00. Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

All Erla Goods Are Good

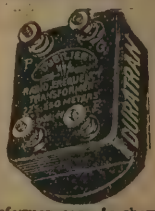
19B24 Postpaid $3.95

Selectoformer

Erla Selectoformer is a scientifically designed transformer for improving the coupling between any antenna and any receiver, with resultant increase in selectivity and volume. As the name implies, Selectoformer operates both as a transformer and selector or wave filter, picking off of the antenna the one wave to which it is tuned and delivering it to the input tube of receivers with maximum efficiency. Regular price $5.00. **Postpaid** Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

19B26 ..... **$3.95**

Duratran R. F. Transformer



The Dubilier Radio Frequency Transformer, called the Duratran, is designed for a wave length band of 225 to 550 meters and has an amplification factor of better than 20. The transformer is mounted in a hard rubber case. Liberal spacing of the terminals to prevent surface leakage and reduce capacity between the connecting wires, is an outstanding feature. The terminals are plainly marked and on the back of transformer case is shown a conventional circuit diagram. No special form of circuit is necessary. Will amplify very satisfactorily in any form of radio frequency circuit. Operates on all standard tubes. Regular price $5.00. **Postpaid** Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

19B11 ..... **$3.95**

You will find much of value in our books. Prices are low.

Detector **Vacuum Tubes** *Amplifier*

This is "The Radio House of Friendly Service."

E. T. CUNNINGHAM and RADIOTRON Standard Vacuum Tubes

Postpaid **$3.35**

NOTICE: E. T. Cunningham and Radiotron Tubes have the same general characteristics and are identical in construction. The General Electric Company manufacture Cunningham tubes and The Westinghouse Electric & Manufacturing Company make Radiotron Tubes.

Postpaid **$3.35**

You would do well to send us a trial order.

Detector UV-200 C-300.

Detector Tube

UV-200 and C-300 Tubes are the "soft" type, and while especially designed as detectors, they will also give excellent results as audio frequency amplifiers. They are remarkably free from tube noises and "singing." Fitted with standard 4-prong mounting to fit any standard tube socket. Operate on a plate voltage of 16½ to 22½ volts; filament voltage, 5 to 5 4/10 volts. For best results a tapped "B" battery should be used. Regular price $4.00. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

		Postpaid
20B9	UV-200	$3.35
20B4	C-300	3.35

Amplifying Tube

UV-201A and C-301A Amplifying Tubes, working in conjunction with amplification transformers, are used to increase the audibility of signals passed through the detector tube. One, two or three tubes and transformers may be used in a group, although the most successful and the most satisfactory results are obtained when two are used. These tubes are of a high vacuum type and require no delicate adjustment. They are very uniform and free from tube noises. Regular price $4.00. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

		Postpaid
20B11	UV-201-A	$3.35
20B5	C-301-A	3.35

Amplifier UV-201A C-301A

De Forest Tubes—A COMPLETE STOCK ALWAYS ON HAND.

		Postpaid
20B13	DV2 Dry Cell Tube, Detector and Amplifier. Reg. price $5.00	$3.35
20B14	DV3 Storage Battery Tube, Detector and Amplifier. Reg. price $5.00	3.35

We do please our customers — will you try us and see?

Postpaid **$3.35**

Detector and Amplifier WD-11 C-11

Detector & Amplifier Tube

The economical dry cell tube Radiotron WD-11 is a most useful and efficient vacuum tube, designed for operation entirely on dry cells. The filament, which should glow not brighter than a dull red, consumes just about a quarter ampere (.25 ampere). This extremely low consumption makes possible filament operation on a single dry cell. This tube requires a special socket. Regular price, $4.00. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

		Postpaid
20B6	WD-11	$3.35
20B7	C-11	3.35

Postpaid **$3.35**

C-399 — Detector and Amplifier 4½ Volts .06 Amps.

Postpaid **$3.35**

UV-199 — Detector and Amplifier .06 Amps. 4½ Volts

The little tube of big performance: UV-199 and C-399 Tubes are the smallest of the vacuum tube family, 3½ in. high and 1 in. in diameter, with a filament current consumption of only .06 ampere. Three No. 6 dry cells in series will energize the filament. They are not only exceptional detectors and audio-frequency amplifiers, but are excellent radio frequency amplifiers as well. Regular price, $4.00. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

		Postpaid
20B12	C-399	3.35
20B10	UV-199	$3.35

Will you please mention us to your friends? Thank you!

Postpaid **$3.35**

Detector & Amplifier Tube

These tubes possess the particular advantage of low battery consumption similar to C-11 and WD-11, only requiring one-quarter of an ampere and 1½ volts for operation. One dry cell of the ordinary type will give excellent results. Will act either as a detector or amplifier. Has standard size base. Requires approximately 20 volts on the plate and will operate satisfactorily with as high as 80 volts. Regular price, $4.00. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

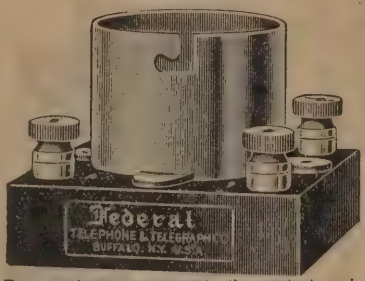
		Postpaid
20B3	WD-12	$3.35
20B8	C-12	3.35

Detector and Amplifier WD-12 C-12

Give That Set of Yours a Chance—Put in Federal Sockets All Around and See the Improvement

Federal Standard Socket

For Standard Tubes



Postpaid

69c

The Federal Standard Vacuum Tube Socket is remarkably rugged and sturdily built. The base being of bakelite, the barrel nickeled and highly finished, the binding posts conveniently and carefully designated, make a unit of pleasing construction and individuality. By a unique arrangement, the contact springs are so placed as to eliminate the possibility of their being caught or twisted by the prongs of the tube when the tube is inserted. Regular price, Type 16, $1.00; Type 21, $1.20. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** **Postpaid**

16B5 No. 16, as shown..... **$0.69**
16B6 No. 21, for panel mounting..... **.89**

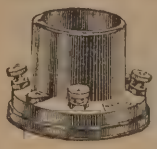
Federal UV199 Socket

The Federal No. 14 Vacuum tube socket is of the same design and construction as the Nos. 16 and 21 with the exception that it was designed for use with the UV-199 and C399 Tubes. Regular price $1.00. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

16B7. No. 14, for base mounting .. **Postpaid** **$0.80**
16B8. No. 14, for panel mounting .. **.80**

A little difference in quality of a part often makes a great difference in reception. It pays to get the better.

Na-ald Socket



Standard

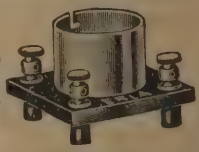
This socket is moulded of genuine bakelite, with particular attention to cross-section, and also allowing a generous distance between the contacts and the mounting plate. The slot is concealed, binding posts nickel plated and mounting screws supplied. Regular price $0.75. Buy it from Liberty and save 28%. **Satisfaction Guaranteed.** **Postpaid**

16B9 No. 400. **$0.54**

Erla Indestructible Socket

The heavy metal shell eliminates breakage at the bayonet slot, while highest dielectric as well as physical strength is provided by the reinforced Bakelite base. All metal parts triple nickeled. Regular price 75c. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.** **Postpaid**

16B1 ..... **$0.64**



Standard

Na-Ald Special UV199 Socket

To get full benefit from UV-199 and C299 tubes, the Na-ald 499 Socket should be used. Comparative tests show an unusual achievement in this socket. Regular price 50c. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** **Postpaid**

16B10. Type 499 ..... **$0.39**

UV 199

General Radio Standard Socket

The base of the General Radio socket is of heavy moulded bakelite providing adequate insulation. The springs are of bronze, nickel finished. They are so arranged as to make positive contact on the sides of the tube prongs. Regular price $1.00. Buy it from Liberty and save 10%. **Satisfaction Guaranteed.** **Postpaid**

16B3 ..... **$0.90**

Standard Sockets

			Postpaid
	Amsco Socket		
16B16	Regular Price.....	$0.75	**$0.60**
	Hyman Socket		
16B17	Regular Price.....	.50	**.40**
	Bell Socket		
16B20	Regular Price.....	1.00	**.80**
	Radion Socket		
16B21	Regular Price.....	.75	**.60**

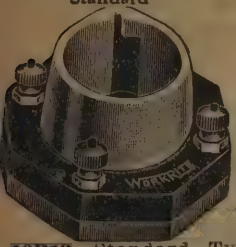
Standard Sockets

			Postpaid
	Magnus Socket		
16B22	Regular Price.....	$0.70	**$0.56**
	Framingham Socket		
16B23	Regular Price.....	.60	**.48**
	Fada Socket		
16B24	Regular Price.....	1.00	**.80**
	Waterbury Socket		
16B25	Regular Price.....	.60	**.48**

Moulded **Tube Sockets** *Bakelite*

This Is the Socket For Your Portable (or Any) Set

Standard



WorkRite Non-Microphonic Socket

WorkRite sockets are moulded from Bakelite and have a sponge rubber cushion on the bottom which prevents vibration from reaching the tubes. This type socket is almost an absolute necessity where the tube is likely to be jarred. Regular price, Standard, $0.90; UV199, $0.75. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

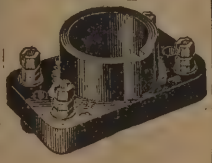
For UV-199

Postpaid

16B12 Standard Type.....$0.72 **16B13** For UV-199 .....$0.60

Pacent UV199 Socket

Type UV-199



This socket is made of high grade insulation and fitted with special slotted hexagon binding posts. Contacts are of phosphor bronze. Regular price $0.50. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

Postpaid

16B26 .....$0.40

Stock does not stay long with us — we slash the prices — make a small profit and many profits in a year — and you get the benefit.

Liberty Moulded Socket

Standard

This is an extremely attractive socket, moulded from genuine Bakelite, with a uniform cross-section that is not too heavy. This insures thorough cure and the highest dielectric properties. When it is known that a lead pencil mark makes a grid leak, the importance of having the best possible insulation becomes apparent. This socket is equal in appearance and effectiveness to most expensive sockets, although priced at a remarkably low figure. Regular price, $0.35. Buy it from Liberty and save 18%. **Satisfaction Guaranteed.**

Postpaid

16B4 .....$0.29

Socket Adapters

Na-Ald Adapter

Postpaid

54c

The Na-ald Adapter makes it possible to use UV199 and C299 Tubes in the regular standard sockets. These adapters are moulded of Bakelite, one piece, with particular attention paid to contacts. Regular price $0.75. Buy it from Liberty and save 28%. **Satisfaction Guaranteed.**

Postpaid

16B11 ..... $0.54

Pacent Adapter

All the various requirements of a high grade adapter are perfectly combined in this product. The contact springs are of phosphor bronze, assuring a perfect contact. The ideal UV199 or C-299 adapter. Regular price $0.50. Buy it from Liberty and save 28%. **Satisfaction Guaranteed.**

Postpaid

16B19 ..... $0.36

Postpaid

36c

Vacuum Tubes

Sodion Tube

As its name implies, it makes such effective use of the peculiar properties of the sodium ion that there is no need of regeneration to build up the strength of your reception. The fact that it does not oscillate eliminates all semblance of whistles and howls in your own reception; unusually sensitive to weak signals; stable and uniform in operation; operular price $6.50. Buy it from Liberty Postpaid and save 8%. **Satisfaction Guaranteed.**

20B15..... **$6.00**

Postpaid

$3.35

O-T Silvertone Detector and Amplifier

Manufactured by De Forest Tel. & Tel. Co. Clear as a silver bell. None better. If you want sharp, clear, mellow tones, music with its delightful and thrilling modulations, speeches without distortion, audible down to a whisper and all the other joys of Radio at their best, equip your set with O-T-2. Their rugged construction assures long life—from 2000 to 3000 hours. Silvertone Tubes operates on either dry cell or storage battery. Regular price $6.00. Buy it from Liberty and Postpaid save 44%. **Satisfaction Guaranteed.**

20B1 O-T-2, 1½ to 3 volts, battery draw, 2 amp..... **$3.35**

"Prompt Service"

I wish to thank you for the prompt service in filling my order.—ETHAN W. POHL, MERRILL, WIS.

Plain Vernier **Dials and Bezels** *Nickel Plated Black*

If You Want to Get That Elusive Distant Station

Equip Your Set With The Accuratune or Univernier Vernier Dials

Accuratune

One of the most recent radio developments is the Accuratune dial which give a coarse and vernier adjustment for variable condensers, variometer, variocouplers and potentiometers. Inclosed in the bakelite knob is a set of gears so arranged that one rotation of the knob is nearly twelve times that of the instrument shaft, which permits the operator to tune in long distant stations clearly and easily.

Satisfaction Guaranteed. Postpaid

10B20 ..... **$3.50**

Univernier

The Univernier is one of the latest radio developments. It is an instrument of precision which provides vernier adjustment for ordinary variable condensers, variometers, variocouplers, potentiometers and rheostats. Enclosed in the tapered knob is a set of gears so arranged that one rotation of the knob is nearly twelve times that of the instrument shaft. Light pressure towards the panel permits coarse adjustment and causes the univernier to function as the ordinary knob, thereby combining fine and coarse adjustments in a single unit. Fitted with silver finished dial, 3¼ inches in diameter, engraved from 0 to 320 degrees. Suitable for ¼ inch shaft. Remarkable selectivity and results are obtained with its use. Postpaid

Buy it from Liberty and save 16 to 24%.

Satisfaction Guaranteed. Regular Price

10B17 Black $1.25 **$0.95**

10B19 Mahogany .. 1.50 1.23

Pathe Dials

An artistic and unbreakable product. Pathe Dials are not ordinary dials in any sense of the word. The difference is as great as that existing between a piece of moulded glassware and a piece of beautiful cut glass. The dies in which Pathe Dials are pressed, under a pressure of 2500 pounds to the square inch, are marvels of perfection in the die maker's art. (Cut shows a dial of 100 graduations). Buy it from Liberty and save 24 to 32%.

Satisfaction Guaranteed. Regular Price Postpaid

10B7 2¼ in. grad. 270 deg. $0.40 **$0.27**

10BS 3 in. grad. 180 deg. .50 .38

10B9 4 in. grad. 180 deg. .70 .52

Liberty Dials

The present style is the result of numerous models submitted to art critics, and as a consequence has a strong appeal to those who wish their sets to look uncommonly well. The Liberty Dials are manufactured in 2, 3 and 4-inch sizes, with knobs to match. Absorption losses are reduced to a minimum by its very rugged construction, the use of Bakelite and the careful choice and control of materials. Numerals are placed on the bevel of the Liberty Dial. The set screw used in attaching Liberty Knobs or Dials is in a brass bushing. Each size of dials is furnished with a ¼ inch brass insert. Buy it from Liberty and save 32 to 42%.

Satisfaction Guaranteed.

Regular Price Postpaid

10B1 2-in. Dial, ¼-in. insert $0.35 **$0.19**

10B3 3-in. Dial, ¼-in. insert ..... .35 .19

10B5 4-in. Dial, ¼-in. insert ..... .75 .54

Radion Dials

All Radion Dials are moulded with knob and dial plate in one piece with strong metal insert. Buy it from Liberty and save 22 to 28%. Satisfaction Guaranteed.

Regular Price Postpaid

10B10 Black, 3 in., 0 to 100 ..... $0.50 **$0.39**

10B11 Black, 4 in., 0 to 100 ..... .60 .44

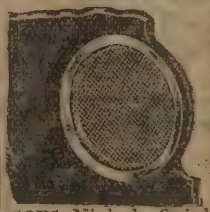
10B12 Black, 3¼ in., 0 to 90 ..... .55 .42

10B13 Black, 2¼ in., 0 to 50 ..... .48 .37

10B14 Mahoganite, 3 in., 0 to 100 ..... .60 .44

10B15 Mahoganite, 3 in., 0 to 100 ..... .75 .54

Erla Telescoping Bezel



Attractively finished in bright nickel or dull black enamel, they match perfectly the finest cabinet materials. The rim of Erla bezels is patented, being of special telescoping type that fits any ¼ inch to ¼ inch panel. Made in 1 inch and 1¼ inch diameter. Buy it from Liberty and save 30%. Satisfaction Guaranteed.

Regular Price Postpaid

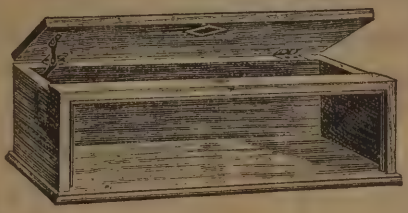
12B1 Nickel finish $0.20 **$0.14**

12B2 Dull black finish. .20 .14

Mahogany **Cabinets** *White Wood*

A Radio Cabinet is necessary because it protects the working parts of your set from dust and moisture, both of which affect its efficiency.

Our cabinets are constructed of kiln dried lumber, well joined and finely finished. The front is mortised so the panel fits in flush with edges, producing a neat finished effect. Panels are offered on this page to fit these cabinets. All cabinets are 7 in. deep. Buy from Liberty and save 10 to 20%. Satisfaction Guaranteed.



You are absolutely sure of a square deal here. Make us prove this.

Mahogany Finish

	Takes Panel	Regular Price	Postpaid
5B1	7 x 10 in.	$3.75	$3.20
5B2	7 x 12 in.	4.00	3.40
5B3	7 x 14 in.	4.25	3.50
5B4	7 x 18 in.	4.75	4.15
5B5	7 x 21 in.	5.00	4.50
5B6	7 x 24 in.	5.75	4.95
5B7	7 x 26 in.	6.25	5.25

Baseboards

Made of whitewood, stained, smooth both sides, to fit cabinets listed. Permits you to slide your set from cabinet to make adjustments easily. Each one ¾ inch thick.

	Size	Postpaid
5B15	6½ x 9½ in.	$0.25
5B16	6½ x 11½ in.	.30
5B17	6½ x 13½ in.	.35
5B18	6½ x 17½ in.	.40
5B19	6½ x 20½ in.	.45
5B20	6½ x 23½ in.	.50
5B21	6½ x 25½ in.	.55

Radion Panels

Why not make the Liberty Mail Order House your buying headquarters?

Radion is non-porous, non-absorbent, warp-resisting, permanent, may be easily, quickly and accurately drilled, cut, threaded, engraved, stamped, and polished without danger of chipping. Radion Grade Panels, although comparatively low in cost, provide the best and safest insulation in radio frequency currents. They are supplied with highly polished, flawless surfaces. Buy it from Liberty and save 20%. Satisfaction Guaranteed.

Radion, Black

	Takes Panel	Regular Price	Postpaid
12B3	7 x 10 in.	$1.25	$1.00
12B4	7 x 14 in.	1.75	1.40
12B5	7 x 18 in.	2.25	1.80
12B6	7 x 24 in.	3.00	2.40

Radion, Mahoganite

	Takes Panel	Regular Price	Postpaid
12B7	7 x 10 in.	$1.55	$1.27
12B8	7 x 12 in.	1.85	1.48
12B9	7 x 14 in.	2.20	1.76
12B10	7 x 18 in.	2.75	2.20
12B11	7 x 24 in.	3.70	2.96
12B13	7 x 26 in.	4.00	3.10

Whitewood Stained Mahogany Varnished

	Takes Panel	Regular Price	Postpaid
5B8	7 x 10 in.	$3.00	$2.50
5B9	7 x 12 in.	3.25	2.60
5B10	7 x 14 in.	3.50	2.75
5B11	7 x 18 in.	4.00	3.50
5B12	7 x 21 in.	4.25	3.75
5B13	7 x 24 in.	4.50	3.90
5B14	7 x 26 in.	5.00	4.25

Formica Bakelite Panels

The favorite form of Bakelite. From coast to coast Formica is sold for radio uses. It is used by practically all of the large independent radio manufacturers. Formica is so strong that a thinner panel is enough for a radio set. It will not soften, sag or warp because of heat. Its beautiful finish is not affected by the weather or other conditions. 3/16 in. thick. Buy it from Liberty and save 20 to 30%. Satisfaction Guaranteed.

	Takes Panel	Regular Price	Postpaid
12B14	7 x 10 in.	$1.75	$1.40
12B15	7 x 12 in.	2.00	1.60
12B16	7 x 14 in.	2.25	1.80
12B17	7 x 18 in.	3.00	2.10
12B18	7 x 21 in.	3.50	2.40
12B19	7 x 24 in.	3.75	2.90

Hard Rubber Panels

Made by the American Hard Rubber Company for radio use. Meet all requirements. Buy it from Liberty and save 14 to 20%. Satisfaction Guaranteed.

	Takes Panel	Regular Price	Postpaid
12B21	7 x 10 in.	$0.90	$0.72
12B22	7 x 12 in.	1.05	.85
12B23	7 x 14 in.	1.25	1.05
12B24	7 x 18 in.	1.40	1.20
12B25	7 x 21 in.	1.75	1.40
12B26	7 x 24 in.	1.85	1.48

Listen In With The Royalfone

Royalfone

A professional's headset at the amateur's price. These phones will please you because they are supersensitive, durable, comfortable; they accurately reproduce either vocal or musical sounds; they hold their adjustment and are unaffected by either climatic or temperature changes. If you want a radio headset that will exhibit sound engineering principles, correct design, high grade workmanship, durable finish, extreme sensitiveness and superior tonal qualities, this headset is just what you want. The receiver is equipped with a one-piece bi-polar permanent magnet of high-grade magnet steel provided with a fibre corrosion proof diaphragm, copper wire coils. All parts are encased in receiver shell of cast non-magnetic material. Each coil is wound to 500 ohms and they are connected in series. This gives a combined resistance of 2000 ohms. Includes a magnet of great strength, four-foot cords; black webbing. Weight only 10 ounces. Regular Price $4.50. Buy it from Liberty and save 13%. **Satisfaction Guaranteed.** **Postpaid**
13B30 ..... **$3.92**

Brandes Superior "Matched Tone" Phones

In using the celebrated Brandes Superior "Matched Tone" Phones you hear the same sound in both ears. Two receivers perfectly matched in tone in a single radio headset increase the strength of the message because each receiver gives to the ear it covers the same message in exactly the same tone. Listening in with a Brandes Matched Tone Headset is like listening with both ears to a single person talking in a normal voice. The Superior is the standard in its class, accepted standard for 15 years, supersensitive. It is included in the leading types of completely equipped receiving sets. The "Featherweight" headband makes fitting easy and comfortable. The phones are light in weight. The "Nonoise" conducting cord has a red tracer woven into the lead for connection with the positive terminal to prevent demagnetization. The highest manufacturing ideals control the quality of the product. 6-ft. cord. Reg. price $6.00. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** **Postpaid**
13B25 ..... **$4.80**

Brandes Navy Type Phones

The Navy Type is unequalled for efficiency. Its wonderful pure and mellow tone is especially adapted for the reception of speech and music. The conducting cord (pat. pending) has been especially shielded for use on radio-frequency to prevent body capacity. The cord connections are made inside the case; thus neat appearance, comfort and the highest efficiency possible are united in the Navy Type. 6-ft. cord. Regular price $8.00. Buy it from Liberty and save 20%. **Postpaid Satisfaction Guaranteed.**
13B24 ..... **$6.40**

HOW MAY WE SERVE YOU? The Liberty M. O. House is exclusively mail order. We do no over the counter business. We cater entirely to your needs. What service can we render you? Please tell us. We want to be of help to you.

"Better Than Expected"

Your mechandise found to be perfectly satisfactory and better than I expected for the money. I have been a radio fan for some time and have been dealing with most all of the radio houses in the country, but I feel now I shall stop experimenting and buy from Liberty. The good will you are extending me is worth more than the best merchandise in the world. It certainly is gratifying to receive a letter like the one you wrote me in reply to my inquiry about the Neutrodyne."—A. C. Peed, Mt. Sterling, Ky.

Baldwin Phones

The diaphragm of Baldwin phones are of thin mica, being very light and sensitive to the impulses from the armature. The diaphragm, armature, link and spring together weigh only a fraction of the weight of the common steel diaphragm. The magnetic circuit has comparatively little reluctance, having a double path between the pole-pieces. The air spaces are thin and the flux from the permanent magnet does not have to pass lengthwise through the armature. 6-ft. cord. Regular price $12.00. Buy it from Liberty and save 25%. **Satisfaction Guaranteed.**

13B10 Type C..... Postpaid **$8.95**

The N-K Phones

Postpaid **$3.95**

These phones are sold in competition with other good phones and the manufacturers guarantee them to equal others at any price. In less than a year, with practically no advertising, thousands and thousands of these phones have been put into use by radio set owners. There are very good reasons for this popularity. Beautifully finished with heavily nickel brass casing and comfortable, sanitary leather covered head bands, 6 foot cord, durable contact tips. (Please do not confuse with N&K phones.) Buy it from Liberty and save 28%. **Satisfaction Guaranteed.**

			Reg. Price	Postpaid
13B36	4000	Ohms.	$5.50	**$3.95**
13B34	6000	Ohms.	6.00	**4.25**

Low price—high quality Little Tattler Phones

Postpaid **$2.95**

Regular Price **$4.50**

These phones are wound to an ohmage and an impedance which produce the maximum efficiency, insuring larger volume and allowing greatest sensitiveness. Rubber composition receiver shell and rubber composition ear caps of generous size insure comfort and exclude outside disturbance. Non-recording special soft iron diaphragm. Single pole Norway iron coils. Magnets are aged after tempering by special process. 2000 ohms. 4-ft. cord. All metal parts are nickeled and buffed. Regular price $4.50. Buy it from Liberty and save 34%. **Satisfaction Guaranteed.**

13B1..... Postpaid **$2.95**

Popular head set for little money Frost Fones

Postpaid **$3.25**

Regular Price **$5.00**

Frost Fones combine maximum efficiency with permanent sensitiveness. Perfect audibility and clear tone. Quantity production governs their price, backed by 33 years manufacturing experience. This is why we can offer so much for so little. The casings of these phones are moulded composition and the total headset is extremely light in weight. Resistance 2000 ohms. 6-ft. cord. Regular price $5.00. Buy it from Liberty and save 35%. **Satisfaction Guaranteed.**

13B31..... Postpaid **$3.25**

A Suggestion About Judging Telephone Headsets

The relative value of anything often is determined by the price. We list telephone headsets at different prices from the lowest up. If you want to spend only the minimum amount for your equipment, you will find the lowest priced set we offer will give you good service. But such a set cannot be so sensitive or enable you to receive from such a distance or give you the satisfaction you would get from the use of any of the higher priced sets.

Sometimes people make a mistake, after spending a lot of money for the rest of the receiving outfit, by thinking they are economizing by buying one of the lowest priced headsets. The poorer the rest of the outfit the better should be the phones. In fact, with any of the cheaper receiving sets you should use a first-class headset. In some cases a difference in headsets may mean a difference of hundreds of miles in reception. By selecting one at the higher prices you are certain to get the best there is to be obtainable anywhere at any price. If you choose one at a lower price, there is no better value for the money anywhere.

Standard **Loud Speakers** *Power*

The Liberty Loud Speaker

Why not let everybody hear? Flood the room with the sweet, mellow music from this loud speaker.

The Liberty Loud Speaker is an exceedingly good value in a high grade, efficient speaker, at an exceptional low price. In appearance and tone reproduction, it compares favorably with many loud speakers selling at a far greater price. The horn is made of compressed fibre, insuring a mellow pleasing tone and entirely eliminating the metallic sound so frequent in loud speakers. The base is of light metal and the horn is finished in a dull black attractive finish. Regular price, $15.00. Buy it from Liberty and save 47%. **Satisfaction Guaranteed.**

13B32..... Postpaid **$7.95**

Talk About Low Prices—This Is Dirt Cheap!

Music Master Loud Speaker

Music Master brings into your home the majestic tones of the pipe organ, the incomparable master instrument of the music world. The tones come in full, clear, rich, beautiful, and you marvel at the skill and ingenuity of man which makes such possible. It will enable you to hear and feel the majesty and grandeur of the organ as though you were in its very presence. It gives you the truth of each soft strain, every arpeggio, the inspiring chords and the rich rolling bass tones. The Music Master is equipped with wood amplifying bell and wood properly shaped as a horn, which is furnished only with the Music Master. Wood is the one material that makes possible the perfect reproduction of the actual living tones themselves. Why not let everyone hear the organ? Fill the whole room with its wonderful music, simply by connecting the Music Master to your radio set. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

13B4 14-in. horn, spruce or mahogany, for the home. regular price $30.00..... Postpaid **$24.75**

13B5 21-in. horn, mahogany only, for concerts; regular price, $35.00..... **27.95**

Magnavox Loud Speaker

To measure the success which Magnavox engineers have accomplished in design and manufacture of Magnavox products and to assure yourself of satisfaction, remember that they have been sold in far larger quantities than any other radio units in the world. Magnavox instruments are never subject to those internal interferences which at critical moments are so apt to mar the performances of ordinary radio reproducers. Magnavox Radio Reproducer R3 is a universal accessory for any good receiving set having one or more stages of amplification. In the reproduction of broadcast programs according to the essential standards of pitch, quality and volume, the Magnavox electro-dynamic Reproducer has never been surpassed. To meet the requirements of dry battery receiving sets the Magnavox engineers have developed the new semi-dynamic type of Reproducer, M1, which consumes no current from the field. All horns 14 inch. Curvex form. **Satisfaction Guaranteed.**

13B35 M4—Latest type (as illustrated); requires no battery. State choice of black, dark grey mottled, and polychrome finish... Postpaid **$25.00**

13B23 M1—Semi - dynamic Reproducer, polychrome finish **25.00**

13B21 R3—Electro-dynamic Reproducer, black finish. **35.00**

13B22 M1—Semi - dynamic Reproducer, dark grey, mottled **35.00**

"The Atlas"

A High Quality Speaker
At a Price Within Reach of All

Postpaid $18.95

The Atlas is first of all a reproducing instrument. It rproduces the full, clear, natural tone of the music and voice as actually sung or played. It is the same distinction as that between the old-fashioned wax cylinder, tin horn, scratchy phonograph of a few years ago and the finest phonographs of today whose reproduction deceives even the trained ear. This astonishingly faithful reproduction is due to its scientifically proportioned design coupled with its construction of a special fibre and the most expert craftsmanship in its manufacture. This scientific design compensates for the shortcomings of broadcasting and receiving conditions and gives you the program exactly as delivered into the microphone. The Atlas is unbelievably sensitive, responding as readily to very weak as to the stronger impulses, requires no storage battery to energize the magnet and gives splendid results even with a single-stage set. It is adjustable to the entire range of vocal and orchestral music. Adjustable to individual receiving sets and receiving conditions. This widely known loud speaker actually produces; is so very satisfactory that users say, "Its wonderful tone quality is indeed a revelation." "The exceptional tone quality of the Atlas and ease of adjustment of the double diaphragm are two features of unusual importance." Diameter of horn, 10¼ in. Regular price $25.00. Buy it from Liberty and save 21%. **Satisfaction Guaranteed.**

Postpaid

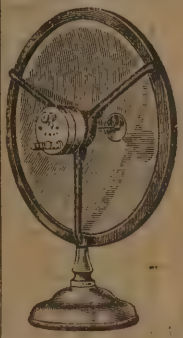
13B11 Atlas Loud Speaker..... **$18.95**

Perfectone Radio Reproducer

Postpaid $9.95

Listen in, home folks. Enjoy radio broadcast music and voice as faithfully reproduced with a Perfectone, the connecting link between radio broadcasting and its satisfactory interpretation in the home. As the name implies its perfect tone enables the radio audience to visualize the performers and to feel their presence. The Perfectone has volume beyond the merry-making of your guests, yet its tone may be softened by an adjustable control feature. The Perfectone is pleasing in appearance and when used with a Neutrodyne, Regenerative or, in fact any tube set of sufficient energy, gives remarkable reproduction. Regular price $15.00. Buy it from Liberty and save 37%. **Satisfaction Guaranteed.**

13B18..... **Postpaid $9.95**



Pathe Loud Speaker

Postpaid $13.95

Try Us Once

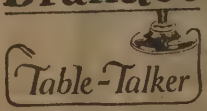
Since there is no distortion of sound-production in the Pathe Radio Loud Speaker, additional amplification in the receiving set will give better results. No additional storage-battery-current is required to operate the Pathe Radio Loud Speaker. Simply attach it in place of the ear phones. When a Pathe Radio Loud Speaker costs only a trifle more than a good set of ear phones, why not acquire a Pathe Radio Loud Speaker that everyone can enjoy? Regular price $17.50. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

13B7..... **Postpaid $13.95**

Brandes

Postpaid $8.95

Brandes



The Table Talker provides two tones, mellow and strong. The soft sweet strains of a violin, the thundering volume of an organ and the warbling notes of a soprano all come from Brandes Table Talker with trueness and full volume. Its mellow tones and full volume are characteristic of the quality and manufacturing experience built into it. The finish is a beautiful neutral shade of deep brown which harmonizes perfectly with artistic home furnishings. The base is felt padded to protect polished furniture. Regular price $10.00. Buy it from Liberty and save 10%. **Satisfaction Guaranteed.**

13B13..... **Postpaid $8.95**

		Regular Price	Postpaid
13B28	Western Electric Loud Speaker, 521W....	$23.00	$16.95
13B29	Dicto-Grand Loud Speaker.....	24.50	17.19
13B37	Ethervox Loud Speaker.....	45.00	41.25
13B38	Thompson Magnaphone Loud Speaker...		28.50

Just Attach This Unit To Your Phonograph

and use it as a Loud Speaker at half the cost

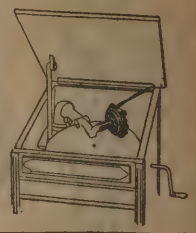
Loud Speaker Unit

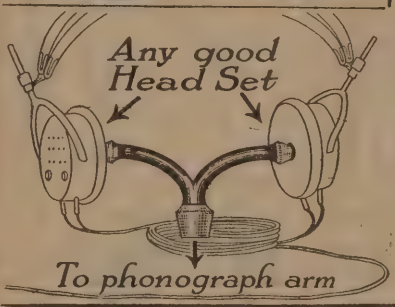
Only $9.62

If you already have a horn and base, or if you want to use your phonograph as a loud speaker, all you need is the Atlas unit type B. It contains the necessary apparatus for amplifying the sound and you will get good results. It fits on any type of phonograph. Please state the make you have. Buy it from Liberty and save 21%. **Satisfaction Guaranteed.** Postpaid

13B8 Atlas Unit, Type B; regular price $12.50..... **$9.62**

13B9 Atlas Unit, Type B, with phonograph attachment; regular price 13.50 **10.62**





Liberty Double Phone Adapter

An efficient device by the use of which you can use your phonograph as a loud speaker. It reproduces the volume of sound without distortion and utilizes the tone amplifier to secure mellowness and beauty of tone. Will fit any phonograph by removing the sound box and connecting the rubber connection of the attachment and placing the phone receivers to each end of the attachment. Beautifully made of a single casting, nickel plated and highly polished. Made in just the right proportion to fit your headset. Regular price $1.00. Buy it from Liberty and save 58%. **Satisfaction Guaranteed.** Postpaid

13B27..... **$0.42**

Baldwin Loud Speaker Unit

This is the regular type C unit with an extra heavy diaphragm and a special lock washer. Radioists everywhere are obtaining wonderful results with these units as loud speakers. Regular price $6.00. Buy it from Liberty and save 30%. **Satisfaction Guaranteed.** Postpaid

13B20 Type C, with cord **$4.19**

Phone Cord

This cord is very well made. Covered with heavy mercerized cotton. Length 5 feet. Can be used with any standard phones. Buy it from Liberty and save from 43 to 50%. **Satisfaction Guaranteed.** Postpaid

13B14 For double phones $0.75 **$0.39**

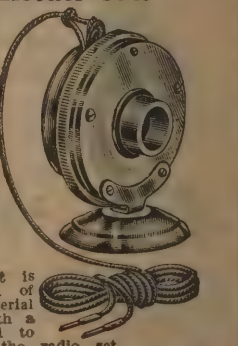
13B15 For single phone or loud speaker.. .60 **.34**

Extension Cord

Many of the loud speakers are now used in some part of the home remote from the receiving apparatus. To obviate the trouble, time and expense of connecting up jacks and plugs with unsightly wires, we are listing this accessory which consists of a cord and plug. End fitted with phone tips for plug. 25 feet. Regular price $1.75. Buy it **Postpaid** from Liberty and save 17%. **Satisfaction Guaranteed.**

13B30..... **$1.50**

Western Electric Unit



The Western Electric loud speaker unit is a perfected phonograph attachment, having been designed to reproduce clear quality music or speech with sufficient volume for the average size room. This unit, attached to any standard phonograph tone-arm will give clear and true reproduction of voice and music over the entire audible musical range. The unit is substantially constructed of the highest grade material and comes supplied with a six-foot connecting cord to make connection with the radio set. Regular price $12.00. Buy it from Liberty and save 16%. **Satisfaction Guaranteed.** Postpaid

13B33..... **$9.94**

Rubber Ear Cushions

The use of these Rubber Ear Cushions adds comfort and pleasure to listening. They fit the ears comfortably and exclude outside noises. They are soft and pliable. They actually improve your reception. They fit any phones. Regular price $1.00 Buy it from Liberty and save 28%. **Satisfaction Guaranteed** Postpaid

13B6..... **$0.72**

Extension Cord

Highest quality. Length 20 feet. Regular price $1.50. Buy it from Liberty and save 18%. **Satisfaction Guaranteed.** Postpaid

13B12..... **$1.24**

Sherma-Switch (Battery Switch)

Postpaid **42c**

Sherma-switch is a well made, efficient switch at a price that every radio fan can afford. Panel mount, installed in a jiffy, for tube and battery conservation; 7/8 in. diameter, 1 7/8 in. long, nickel finish. Regular price $0.50. Buy it from Liberty and save 16%. Satisfaction Guaranteed. Postpaid

18B14..... **$0.42**

Cutler-Hammer Battery Switch

The C-H Radio Switch is fully adjustable for panels of any thickness. Only one 7/16 inch hole is required—no screws or measurements are needed. The mechanicism is perfect—passed by the C-H engineers—quick break, handling up to 110 volts with large surface contacts and a floating construction that eliminates all microphonic noises and does not cause noise in the phones when the button is touched or the table jarred. Handy binding screws and cupped washers make wiring easy. Regular price $0.60. Buy it from Liberty and save 30%. Postpaid

Satisfaction Guaranteed.
18B4.... **$0.42**

Inductance Switch — Fada Type

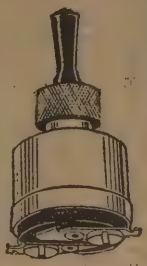
An excellent well constructed Fada type switch. This switch has a tapered knob and may be mounted on a panel up to 3/16 inch. Nickel plated brass bushing and a nickel silver switch lever. A triple spring contact lever assures a positive electrical contact with the switch points. Regular price $0.25. Buy it from Liberty and save 28%. Satisfaction Guaranteed. Postpaid

18B17..... **$0.18**

"Thinks Prices Exceptionally

I am very much pleased with the transformer, the price and the promptness with which you attended to my order. Think your prices exceptionally reasonable.—CARL A. KETH, SYRACUSE, N. Y.

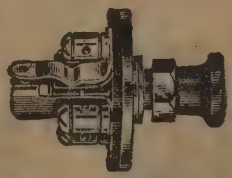
Bradyleyswitch (Battery Switch)



The Bradley switch is mounted on any radio panel by simply drilling a 3/4-inch hole, inserting the switch and clamping it securely to the panel with the knurled nut. The connecting wires are easily attached to the screw terminals or soldered to the terminal lugs. It is a very compact switch. Beautifully finished. Extremely essential in sets using UV-199 tubes; to be sure the battery circuit is shut off when the set is not in use. Easily installed. Pays for itself many times in longer battery life. Regular price $0.60. Buy it from Liberty and save 5%. Postpaid

Satisfaction Guaranteed.
18B10..... **$0.57**

Jones Improved Battery Switch



A high grade, efficient switches, which have become very popular, due to their neatness and simple method of mounting and wiring. They are designed for mounting on panel and only one hold is required. They are operated by pulling or pushing button. Made of the finest insulating material, metal parts are of brass, nickel plated and polished. Directions and diagram furnished with each switch. Postpaid

Satisfaction Guaranteed.

18B11 Single Pole, Single Throw **$0.69**

18B22 Single Pole, double Throw ..... .92

Switch Point

These switch points are made of brass, nickel plated and polished. All are furnished complete with nuts. They are 3/4 in. long with 6/32 thread. Furnished with locknut. Postpaid

18B15 Dz. **$0.15**

Switch Stop

Made of brass, polished nickel finish. Will fit any panel up to 1/4 inch thick. Supplied with one locknut.

Postpaid

18B16 Dz. **$0.15**

Improved Her Speech

A young woman from Greenwich, N. Y., wrote that after listening to radio plays for a year and a half, as broadcast by WGY, she found that the deliberate, clear enunciation of the players was helping her in her own speech. "I used to be a fast talker," she wrote; "so fast, in fact, that I chewed my own words. I always had to say everything twice. Listening to different speakers and players, I gradually overcame it."

Would You Like Help—

in deciding which set to buy or make? Tell us what you would like to accomplish and about how much you think of spending and we will try to assist you.

Single **Phone Plugs** *Multiple*

Use a Phone Plug For Convenience

Comsco Phone Plug

A large, high grade plug, easy to handle and insert into jack. This plug is mechanically perfect and requires no tools for connecting phone tips. The outstanding feature is the patented spring Bull Dog Grip which makes a perfect electrical connection. The knurled casing is moulded of the highest grade insulating material and sufficiently large enough for convenient handling. Made in two sizes for connecting one and two pairs of phones. Regular price for size 1, $1.00; size 2, $1.50. Buy it from Liberty and save 31 to 38%. **Satisfaction Guaranteed.** Postpaid.

11B13 (1 pair plug) **$0.69**
11B14 (2 pair plug) ..... .94

WHY NOT NOW?
When we quote such low prices and give such a great variety of offers, and make quick shipment, and guarantee satisfaction, there does not seem to be any good reason why we should not receive at least a trial order, does there? Please try us.
Look at the brands of the goods we advertise. Nearly everything of standard, well-known advertised make. You know what you are getting in dealing with The Radio House of Friendly Service.

Experts declare a radio set is as necessary as the telephone. Will you get yours now without further loss of profit or pleasure?

Murdock Plug-Jack

This plug allows four pairs of phones to be connected to the one jack which will afford entertainment to four people at the same time. No tools necessary; just plug the phone cord tips into the grooves provided. Regular price $1.00. Buy it from Liberty and save 28%. **Satisfaction Guaranteed.** Postpaid

11B7 ..... **$0.72**

Danstrom Multiple Plug

An ideal multi-plug which allows from one to six pair of head phones to be connected to a single jack in your receiving set. The highest grade insulating material enters into the construction of this plug. Regular price $1.25. Buy it from Liberty and save 33%. **Satisfaction Guaranteed.** Postpaid

11B22 .. **$0.89**

Erla Phone Plug

Two sets of phones are connected simultaneously through this plug, without cutting or changing the phone tips in any way. To connect or disconnect the plugs is the work of but a moment. All metal parts are heavily nickeled, while the shell is of hard black fibre. Regular price $0.75. Buy from Liberty and save 20%. **Satisfaction Guaranteed.** Postpaid

11B8 ... **$0.60**

Improved Pacent Universal Plug

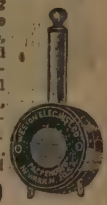
This is a perfect plug for every radio requirement. You need only to insert cord tips in connector springs and clamp the shells of plug together to obtain that desired biting contact. Conducting parts are well insulated and no live parts exposed. Reg. price, $0.50. Buy it from Liberty and save 22%. **Satisfaction Guaranteed.** Postpaid

11B4..... **$0.39**

Weston Plug

A high grade plug with a flat handle moulded of Bakelite, having two patented spring clips which insures a perfect electrical connection. Reg. price, $0.75. Buy it from Liberty and save 21%. **Satisfaction Guaranteed.** Postpaid

11B15 .. **$0.59**



"Better Than Expected

The goods were better than I expected them to be. Floyd Nelson, R.D. 2, Aurora, Neb.

PLEASE READ THESE FOUR LETTERS.

"Prompt Attention"

I thank you for your prompt attention to my order. Homer Caldwell, Pittsburgh, Pa.

"Just as Described or Better"

I am well pleased with everything I got. Everything was just as described in the catalog or better. Chas. S. Wood, Anita, Iowa.

Likes Ear Cushions

The Rubber Ear Cushions are great and I wouldn't take a dollar for mine if I could not get any more like them.—Chas. S. Wood, Anita, Iowa.

All kinds **Phone Jacks** *For all purposes*

Perfect Your Set With These Jacks

Postpaid **42c**

Millimeter Jacks

These small, high grade, well finished jacks have been especially designed for panel work and are of standardized construction so as to be interchangeable with every other standard make. Can be mounted on ⅛, 3/16 or ¼-inch panels. Insulation is of high grade and will withstand 110 volt break down test. Contact springs are of nickel silver and contact points of pure silver. Frame is nickel plated and has highly buffed finish. Sturdy construction, perfect spring adjustment' gripping contact of springs on tip and sleeve of plug. Packed in individual containers. A particularly desirable feature is the "spread" arrangement of the spring terminals which allows twice the usual amount of space for soldering to the wiring. These terminals are heavily tinned. Buy it from Liberty and save 36 to 47%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
11B17	Double Circuit	$0.80	**$0.42**
11B10	Open Circuit	.70	.38
11B30	Closed Circuit	.80	.42
11B31	Single Filament Control	1.00	.64

Jones Improved Jack

These Jacks, made especially for radio use, are approximately half the length of the conventional type of Jacks, yet any standard plug fits them. This makes them particularly desirable in certain types of sets where the saving of space is wanted and where the wiring is close to the panel. Small, neat binding posts replace the usual soldering lugs. Solid screw connections can be made with or without solder. Furnished in two different styles as listed below. **Satisfaction Guaranteed.**

			Postpaid
11B18	Single Circuit, Open	$0.70	**$0.59**
11B23	Double Circuit, Closed	1.00	.84

Thinks Well of Us

I believe you are one of the best radio dealers in the United States. Fernando Jolly, Ancon, C. Z., Panama.

"Sooner Than Expected"

The goods on my last order were received sooner than I expected. Marx Cohen, New York, N. Y.

Federal Radio Jacks

The all around efficiency and reliable construction of Federal Radio Jacks have caused them to be adopted as standard equipment. The frame is of nickeled brass, ½ inch wide, ¾ of an inch high; overall length, 3½ inches. The springs are made of highly tempered nickel silver. Pure silver contact points are used, thereby assuring the best possible electrical contact. Each jack is supplied with three washers which allows its use with panels of different thickness, viz.: ⅛ inch, 3/16 inch and ¼ inch. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.**

Postpaid **48c**

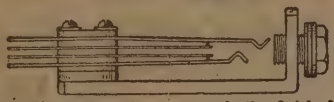
		Regular Price	Postpaid
11B1	No. 1421W, open circuit	$0.60	**$0.48**
11B2	No. 1423W, double circuit	.80	.64

Pacent Jacks

Pacent Jacks are constructed of brass, highly nickel plated, coin silver contacts, German silver springs, micarta insulation. Provided with three washers and will fit any panel up to and including ¼ inch thick. Buy it from Liberty and save 32 to 38%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
11B32	Single Circuit (open)	$0.75	**$0.47**
11B11	Single Circuit (closed)	1.00	.68
11B12	Single Circuit Filament Control	1.00	.68

Frost Jacks



The smallest, neatest, most perfectly finished jacks that have ever been offered the Radio public. They have been specially designed for panel work and are interchangeable with other standard makes. A particularly desirable and exclusive feature of the Frost Radio Jack is the "spread" arrangement of the spring terminals which allows twice the usual amount of space for soldering to the wiring. These terminals are heavily tinned. Buy it from Liberty and save 27 to 33%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
11B29	For neutrodyne	$0.90	**$0.66**
11B16	Two circuit	.80	.59
11B26	Open circuit	.60	.42
11B27	Closed circuit	.70	.47
11B28	Filament control	.85	.62

Fixed Grid Leaks and Condensers *Variable*

Bradleyleak

The Bradleyleak, the perfect adjustable grid leak, has a range from ¼ megohm to 10 megohms. Any intermediate resistance is obtainable without steps or jumps by turning the adjusting knob. The Bradleyleak is independent of atmospheric conditions. Buy it from Liberty and save 9%. **Satisfaction Guaranteed.**

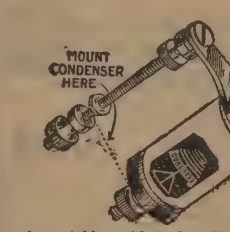
		Regular Price	Postpaid
15B14	Bradleyleak....	$1.85	**$1.69**
7B12	Condenser for Bradleyleak, extra...	.35	.30

Erla Variable Grid Leak

The Erla grid leak is of the well-known pencil-mark type that has proved itself ideal for stabilizing vacuum tubes, being easy to adjust and highly efficient. The base is hard fibre, with a cap of heavy brass finished in gun metal. Terminals are heavy nickeled and spaced to fit the Erla grid condenser. Regular price $0.20. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

Postpaid
15B2..... **$0.14**

Electrad Variohm (Variable Grid Leak)



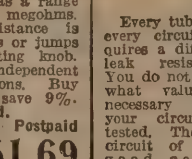
A variable grid leak. Enables you to get exactly the correct resistance for best results from your set. Any resistance from ½ to 30 megohms.
Regular price $0.75. Buy it from Liberty and save 13%. **Satisfaction Guaranteed.**

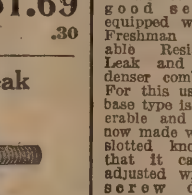
Postpaid
15B1..... **$0.65**

DO YOU WANT GOOD SERVICE?

If so, we are the people for you to do business with. We are here to help you. This is a "service" house. We keep our friends. Try us.

Freshman Variable Resistance Leak





Every tube and every circuit requires a different leak resistance. You do not know what value is necessary until your circuit is tested. The grid circuit of every good set is equipped with a Freshman Variable Resistance Leak and Condenser combined. For this use the base type is preferable and it is now made with a slotted knob so that it can be adjusted with a screw driver. The Panel type is designed so that only the knob and pointer show on the outside of the panel. In many circuits our Panel Type Variable is used as part of the tuning apparatus, where it actually controls regeneration and must be adjusted from time to time. Freshman Variable Resistance Leaks assure an unbroken range from zero to ten megohms—clarified signals—lowered filament current—increased battery life—elimination of hissing. They will enable you to get stations you have never heard before. **Satisfaction Guaranteed.**

Without Condenser

		Regular Price	Postpaid
15B23	Base Type.....	$0.75	**$0.54**
15B26	Panel Type.....	.75	.54

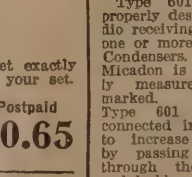
Base Type With Freshman Condenser

15B21	.00025 mfds.	1.00	.75
15B22	.005 mfds.	1.00	.75

Panel Type With Freshman Condenser

15B24	.00025 mfds.	1.00	.75
15B25	.005 mfds.	1.00	.75

Dubilier Micadon Condenser



Type 601. Every properly designed radio receiving set uses one or more Micadon Condensers. Every Micadon is accurately measured and marked. Micadons Type 601 may be connected in parallel to increase capacity by passing bolts through the eyelets and locking them together, or connected in series with machine screws in order to obtain selective capacities. Readily mounted over binding posts. Excellent for experimental work. Buy from Liberty and save 20%. **Satisfaction Guaranteed.**

	Microfarads	Regular Price	Postpaid
7B40.....	.0001	$0.35	**$0.28**
7B41.....	.00025	.35	.28
7B42.....	.0005	.35	.28
7B43.....	.001	.40	.29
7B44.....	.002	.40	.29
7B45.....	.0025	.40	.29
7B48.....	.005	.60	.49
7B49.....	.006	.75	.59

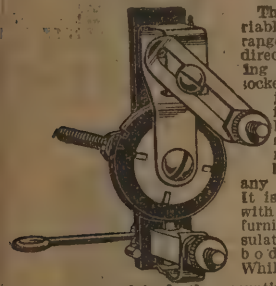
Fixed Grid Leaks and Condensers *Variable*

Freshman Noiseless Tested Mica Condenser

The design of the Freshman is such that constant equal pressure is exerted on the condenser plates over the entire area. The metal case protects the plates and reduces hysteresis losses to a minimum. Only the best grade Pure India Ruby Mica is used. Buy it from Liberty and save 25%. **Satisfaction Guaranteed.**

	Capacity	Regular Price	Postpaid
7B15	.00025	$0.35	**$0.26**
7B16	.0005	.35	.26
7B17	.001	.40	.30
7B18	.002	.40	.30
7B19	.0025	.50	.37
7B20	.006	.75	.56

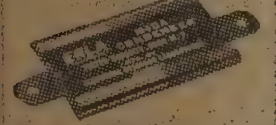
C-H Variable Grid-Leak



The Cutler-Hammer Variable Grid Leak is arranged to be mounted directly on the grid binding post of the tube socket—and still be adjustable from the front of the panel. It has a complete range from infinite resistance to a value lower than needed for any tubes manufactured. It is arranged to be used with any condenser and furnished with a fibre insulation joint to destroy body capacity effects. While mounting on the grid post is advised, the mounting pin is flexible, to be formed as required—or the instrument may be mounted directly on the back of panel. The long brass control shaft is threaded over its entire length and can be cut as desired. Regular price $1.50. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.** **Postpaid**

15B7 ..... **$1.27**

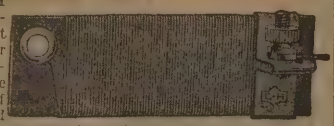
Erla Tested Capacity Condenser



Erla fixed condensers are individually tested to the exact capacity for which they are marked, a unique and exclusive feature. Their absolute accuracy makes them indispensable in meeting the exacting requirements of reflex work, for which they were especially designed. Also, they are absolutely noiseless, due to the positively uniform over-all pressure maintained between plates through the original shell design and the exclusive precision methods under which they are built and assembled. Made in eleven sizes, each an unduplicated, outstanding value. Our offers are standard merchandise. You know what you are getting in dealing with us. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

	Microfarads	Regular Price	Postpaid
7B28	.0001	$0.30	**$0.25**
7B29	.00015	.30	.25
7B30	.00025	.30	.25
7B31	.00035	.30	.25
7B32	.0005	.30	.25
7B33	.0008	.35	.30
7B34	.001	.35	.30
7B35	.0015	.35	.30
7B36	.002	.35	.30
7B37	.0025	.40	.34
7B38	.005	.65	.55
7B39	.006	.75	.64

C-H Radio Resistance Unit



The C-H Radio Resistance Unit adds to your present rheostats just the number of ohms required for the regulation of these new ¼-ampere tubes. You do not have to spend several dollars for new rheostats—nor miss a single hour's entertainment while you bother to redrill your panel for them. Just put the eyelet of the C-H Unit over the post of your rheostat and attach the wire you had to remove to do so to the binding post of the unit. Its compact, handy size and many possible ways of mounting make it adaptable to every receiving set. Regular price $0.25. **Postpaid** Buy it from Liberty and save 28%. **Satisfaction Guaranteed.**

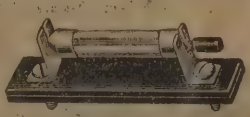
15B9 ..... **$0.18**

Liberty Paper Grid Condenser

Liberty paper fixed condensers are made of foil insulated by paraffin paper and wrapped on a fibre strip. Eyelets at each end of the base for connection.

	Capacity	Regular Price	Postpaid
15B54	.0005	$0.10	**$0.08**
15B55	.0025	.10	.08

Pudlin Variable Grid Resistance



This instrument provides a grid leak that is adjustable over a wide range and will maintain its value permanently after an initial setting. Operates by moving plunger in or out until best results are obtained. Resistance 0 to 10 megohms. Furnished complete with base. Regular price $0.55. Buy it from Liberty and save 10%. **Satisfaction Guaranteed.** **Postpaid.**

15B56 ..... **$0.49**

PERFECT SATISFACTION

Your Comsco Condensers are giving perfect satisfaction. It is a pleasure to deal with such a reliable house.—William Witherow, Pittsfield, Mass.

I found your goods to be entirely satisfactory, so have sent another order which you will find enclosed. — Quintin Ryan, Caledonia, Minn.

The Battery With The Long Life

32c When other batteries are dead the RAY-O-VAC is still alive and kicking

One cell—1½ volt. Maximum service obtained by using two Ray-O-Vacs on WD-11 and WD-12 tubes. Also especially adaptable for use with No. UV-199 and No. 201-A tubes. Full instructions on back of battery. Size: 2⅝x6⅝ in. Add ½ in. for binding posts. Regular price $0.40. Buy it from Liberty and save 20%. Satisfaction Guaranteed. Postpaid

2B13. Type 1211 **$0.32**

Please remember you take no risk in dealing here

Ray-O-Vac Two-Cell Battery

Two cells—1½ volt. Maximum service obtained by using one No. 1212 Ray-O-Vac on WD-11 or WD-12 dry cell tube. Size:—5¼x2⅝x7 in. Add ½ in. for binding posts. Regular price $1.10. Buy it from Liberty and save 11%. Satisfaction Guaranteed. Postpaid

2B14. Type 1212. **$0.98**

A Trial Order Will Convince You

Red Seal Sparker

A novel idea in battery construction. Red Seal Sparker has two cells under one cover, giving 1½ volts for the W. D. 12 and W. D. 12 tubes. Will give about three times the life of a single cell, also four batteries under one cover gives six volts for the U.V.-201-A tubes. Buy it from Liberty and save 37%. Satisfaction Guaranteed. Postpaid

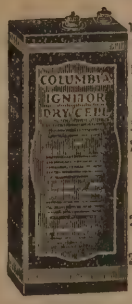
	Regular Price	
2B75	$1.50	**$0.95**
2B73	2.50	1.75

Twin Dry Cell Battery

The most economical batteries for use in connection with dry cell tubes. They give remarkably efficient service. The construction which permits the full use of all materials insures a better maintained voltage and much longer single battery. Regular price $0.80. Buy it from Liberty and save 27%. Satisfaction Guaranteed Postpaid

2B74..... **$0.59**

Columbia Dry Cell



This is the old reliable dry cell known all over for its durability and quality. Is used only for lighting filaments of Dry Cell Tubes. Capacity 1½ volts. The reputation of Columbia Dry Cells is its most favorable argument. Buy it from Liberty and save from 15 to 37%. Satisfaction Guaranteed.

2B76 1½ volts, 2 cell A Battery, hooked in parallel; reg. price $1.50 Postpaid **$0.95**

2B78 Dry cell; regular price $0.45..... .38

2B90 1½ volts, 4 cell, hooked in parallel; regular price $3.00.. 2.25

Red Seal Dry Batteries

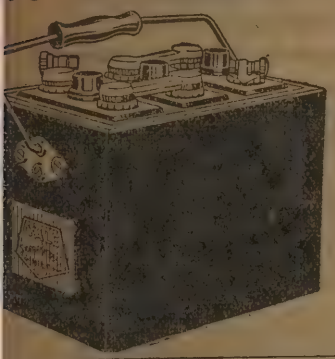
Red Seal Dry Cells are famous. Millions have been sold. While they can be used for filament lighting only on dry cell tubes, for this purpose Red Seals are unexcelled. Capacity 1½ volts. Regular price $0.45. Buy it from Liberty and save 26%. Satisfaction Guaranteed. Postpaid

2B77..... **$0.36**

OUR GUARANTEE—Satisfaction or Money Back

We guarantee to please you in all your transactions with us. If you so instruct us, we will ship you any article by express, subject to examination, so you may examine it before acceptance or payment. If you order complete parts to make a radio set, we will send you instructions so simple any one can readily assemble them. If you have any difficulty and will tell us what it is, we will help you, free. Further, we will allow you to return anything you buy from us which is unsatisfactory, and will give you other goods in their place or refund your money.

Ve Recommend "THE YALE" Storage Battery



Yale storage batteries are especially designed to meet all conditions of radio service. The battery proper is provided with excess gassing chamber beneath the cover, and with vent caps of suitable design to prevent leakage of acid. The plates are thick, strong and durable, and are produced under strict laboratory control, and under supervision of experts who have had vast experience in producing batteries of this and similar types. The terminals are efficient and conveniently arranged, and a suitable handle is provided so that battery can be carried in one hand. Hardwood case is specially treated to resist acid, and is finished in mahogany, and provided with soft rubber cushioned feet. The batteries are provided in a sufficient range of sizes to suit the individual requirements of any Radio equipment. Buy it from Liberty and save 25%. **Satisfaction Guaranteed.**

Freight Paid $13.88

Type	Volts	A. H.	Inches Length	Price Regular	Freight Prepaid
2B47	6	60	7⅞	$18.50	$13.88
2B48	6	90	10⅛	23.00	17.25
2B49	6	120	14⅝	28.00	21.00
2B50	6	150	12⅜	32.00	24.00

Length is decreased one-half inch with handle removed.

ee Notice Below

Buy or make up a receiving and delight your family. There is no cheaper and better tertainment than radio.

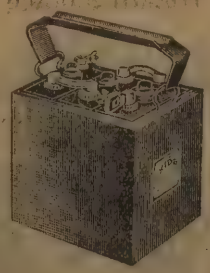
The Westinghouse Battery

The function of radio A Battery is to supply current for hting the filament of a vacuum tube. The mary requirees of a good dio battery e: Ample capacity, long life d minimum s of charge ile not in use. l types of estinghouse eet these requirements. These tteries come in o sizes, 70 pere hours enosed in a wood se and 100 ampere hours enclosed in a hard rubber se. Buy it from Liberty and save 14 to 20%. Satfaction Guaranteed.

	Regular Price	Freight Paid
B79 70 amp. hour wood case	$15.00	**$12.95**
B80 100 amp. hour rubber case	34.70	24.95

Exide 6-Volt Storage Battery

This "A" Battery is made in four sizes shown below and because of the generous proportions of the plates, each size will deliver the full capacity at which it is rated. Heavily lead-coated brass wing nuts and bolts permit rapid connection of battery to set. As in all other Exide "A" Batteries, this type is equipped with vent plugs that are removed or replaced by a quarter turn to the right or left. (Are you noticing that nearly everything we offer is of standard well-known make?) Buy it from Liberty and save 15%. Satisfaction Guaranteed.



		Capacity A. H.	Regular Price	Fght. Paid
2B9	Type 3-LXL-3	25	$13.50	**$11.43**
2B10	Type 3-LXL-5	50	17.50	14.88
2B11	Type 3-LXL-9	100	23.00	19.55
2B12	Type 3-LXL-13	150	30.00	25.50

Willard Storage Battery

The Willard Storage Battery is so ell known throughout the country it ems unnecessary for us to tell you at it is of the highest class and is rtain to give you satisfaction. The pe WRR 6-volt "A" battery is ade especially for radio use. quipped with extra heavy plates ith threaded rubber insulators, asmbled in a hard rubber container, olded in one piece. This battery n be recharged. Buy it from Libty and save 15%. Satisfaction uaranteed.

	A. H.	Wt.	Price	Fght. Paid
2B1	97	20	17 $13.70	$11.65
2B2	0-	50	35 21.20	17.99
2B3	1	80	50 28.00	23.80
2B4	2	100	65 34.70	29.50
2B5	3	125	80 41.50	35.28

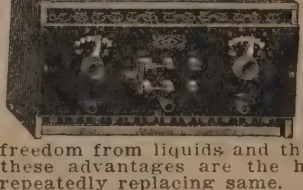
NOTICE! Storage Batteries cannot be sent by Parcel Post. As we pay transportation we reserve the right to ship by freight; or we will allow amount of freight if you wish us to ship by express.

Storage **Plate "B" Batteries** *Rechargeable*

A Rechargeable Plate Battery

The Roberts Wet "B" Battery

Will give a steady voltage with consequent sustained volume



Postpaid **$18.95**

See notice about transportation, page 75

One of the most serious items of expense in connection with the maintenance of a radio set is the B Batteries. These batteries exist in three forms, i. e., the dry cell battery, the lead storage battery and the alkaline battery (using Edison elements). These various types have their independent advantages, for instance, the dry cell battery has in its favor its compactness, freedom from liquids and the fact that it need not be recharged. Counteracting these advantages are the high initial expense, short life and the expense of repeatedly replacing same.

The Edison battery which forms the Roberts battery has long been the marvel battery because of its ability to thrive on rough handling and to last a lifetime. An advantage of the Roberts B Battery is that variable voltage for either detector or amplifying tube may be had in steps of 16, 18, 20, 22, 44, 66, 88 and 100 volts. Buy it from Liberty and save 14%. **Satisfaction Guaranteed.**

		Postpaid.
2B71	No. A, 100 volts, with variable detector voltage from 16 to 22 volts. Regular price $21.50	**$18.95**
2B87	No. 8, 100 volts, with variable detector voltage from 16 to 22 and voltage from 44 to 100 for amplifier. Regular price $24.50	**22.45**
2B88	No. C, 140 volts, with variable detector voltage from 16 to 22 volts. Regular Price $27.50	**24.60**

Willard Storage "B" Battery

Willard Rechargeable "B" Batteries are made in 24 and 48 volt units, each type in two capacities 2,500 and 4,500 m.a.h. Constructed of glass jars which enable you to see the condition of your battery at all times, and help prevent electrical leakage. They save you many dollars because their cost is moderate and when you buy Willard your "B" battery buying is done for years. They require recharging only occasionally, usually not more than three or four times a year. These are some of the reasons why 81 broadcasting stations have replaced other batteries with Willard "B"'s and why they are used by many thousands of radio fans. Regular price, 24-volt, $11.60; 48-volt, $22.50. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

	Type	Volts	Length	Width	Height		Postpaid
2B57	CBR124	24	8	6¼	7¼		**$9.86**
2B58	CBR127	48	12⅛	8⅛	7¾		**19.12**

Hydrometers

STOP GUESSING about your voltage Use this hydrometer

Our hydrometers are made by the Testrite Instrument Company which has a reputation for high quality. Each one has a rubber shock absorber to prevent breakage. This is why an ordinary fall will not injure it. Hard rubber nozzle is furnished with each one. All rubber used is acid proof. Packed carefully in a box with full instruction for use. Buy it from Liberty and save from 16 to 25%. **Satisfaction Guaranteed.**

2B42 No. 110, Shaped Glass Barrel, with larger bulb of red rubber. Reg. price, 75c. ..... Postpaid **$0.56**

2B43 No. 120, Scientifically made glass tube to keep hydrometer from sticking, with extra heavy ribbed red rubber bulb. Reg. price $1.00..... **.84**

Hydrometer Float

2B59 Regular price 50c. **$.30**

Let Us Become Acquainted

It will benefit both you and us.

To establish and maintain pleasant and permanent business relations with you we will do anything necessary to satisfy you.

We have satisfied hundreds of thousands of customers. We think we have learned the way to treat you, so you will enjoy dealing with us and be as well satisfied as the others.

Small **Plate "B" Batteries** *Large*

Put Plenty of Pep on the Plate

Equip Your Set With CYCLONE "B" Batteries

Cyclone B Battery

Cyclone batteries have won the confidence of the radio public, through the excellent, dependable service they render. They are compact and well made and sell so fast they are always fresh and "peppy." The 45-volt is especially designed for amplifying tubes, requiring high voltage.

They carry the broadest guarantee of any battery on the market and are thoroughly examined and tested before leaving the factory in order to insure the best results and satisfaction.

This battery has five positive posts, giving voltages of 16½, 18, 19½, 21 and 22½.

The bottom post is negative.

But it from Liberty and save 16%. **Satisfaction Guaranteed.**

Postpaid 89c

Type	Volts	No. Cells	Lgth. Wdth. Hght.	Regular Price	Postpaid
2B52.....9280	22½	15	3¼ x 2⅝ x 2	$1.50	$0.89
2B53.....9281	22½	15	6½ x 4 x 3	2.00	1.68
2BS2.....9284	22½	15	5⅛ x 3⅛ x 2¾	1.75	1.18
2BS3.....9285	45	30	6 x 5 x 2⅝	3.50	2.35
2B54.....9286	45	30	8 x 6½ x 3	3.75	2.85

Appreciates Courteous Manner

I appreciate your courteous manner in dealing with your customers.
—J. L. D. Gibson, Warwick, West, Bermuda.

Eveready "B" Battery

The popular Eveready B Batteries are offered in this catalogue because they have given long and efficient service to the Radio public. The complete line of Eveready B Batteries are a recognized standard and are in a number of cases standard equipment for a great majority of receiving sets throughout the country. Buy it from Liberty and save 23%. **Satisfaction Guaranteed.**

Type	Volts	No. Cells	Length	Width	Height	Regular Price	Postpaid
BS5 771	4½	3	4"	1⅜"	3"	$0.60	$0.52
B68 776	22½	15	6⅝"	4"	3"	2.00	1.45
B69 772	22½ to 45	30	8½"	3¼"	7¾"	3.75	2.85
BS6 764	22½	15	3⅛"	2⅝"	5⅝"	1.75	.95
B70 767	45	30	8"	5⅝"	3"	3.75	2.85

"Treated Me Right"

I want to treat you right because I know you have treated me right.
—Roy Baker, Farmer City, Ill.

Ray-O-Vac "B" Battery

These batteries are constructed of dependable materials, built by experts. An outstanding feature is that each cell that makes up the complete battery is made of rolled sheet zinc which eliminates thin spots in the cell chambers. Buy it from Liberty and save 18%. **Satisfaction Guaranteed.**

Type	Volts	No. Cells	Length	Width	Height	Regular Price	Postpaid
B16 4151	22½	15	3⅜"	2"	2½"	$1.75	$0.95
BS4 1151	22½	15	3⅛"	5⅛"	2½"	2.25	1.35
B6 2151	22½	15	6⅝"	4"	3"	3.00	1.65
B7 2301	45	30	8½"	6⅞"	3¼"	5.50	3.25

You can enjoy as many of the hundreds of hours monthly of music, speeches, sermons, stories, theatrical performances, reports of crops, markets, weather and sporting events, information, college courses and other instruction and entertainment as your time permits. No charge. All you need is one of our Radio Sets.

D. C. **Battery Chargers** A. C.

Charge Your Battery For a Nickel

With an ULTRA Battery Charger

POSTPAID

$14.10

Regular Price

$16.00

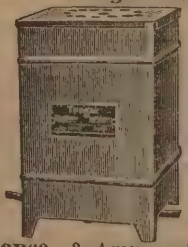
The Ultra charger has an attractive finish and can be placed alongside of the receiving set or on the floor near the battery. It is absolutely automatic in operation and the power consumption is very small, less than 1 cent per hour. Only the best materials are employed in its construction—a precision Weston Ammeter is in full view to show the charging rate; rubber covered acidproof battery leads, approved plugs, clips, etc. On Radio Batteries it may be used at night after the entertainment, or any time during the day, as its use requires no watching. The average time required to fully charge most batteries is 8 to 12 hours, but this time of course depends on the ampere hour capacity of the battery. It charges the standard 6 volt battery (3 cells) at 5 to 7 amperes. Regular price $16.00. Buy it from Liberty and save 12%. **Satisfaction Guaranteed.**

Postpaid

2B89 ..... **$14.10**

A quick charger.
Fully enclosed—metal case—quiet.
Shock proof—fire proof.
Simple—efficient—"Handy."

Tungar Battery Charger



Used successfully for many years. It operates only on Alternating Current and converts the current into direct current for the small storage battery. There are two sizes —2 ampere charger, suitable for 40 to 60 ampere hour batteries and the 5 ampere hour charger for batteries over 60 ampere hours' capacity. Furnished complete with all parts and full instructions for operating. **Satisfaction Guaranteed.**

Postpaid

2B60 2 Ampere Type. Regular price, $18.00.... **$14.95**

2B61 5 Ampere Type. Regular price, $28.00.... **24.95**

Apco Battery Charger

This is a silent battery charger that fully charges a radio battery over night. Polished aluminum cover reduces weight of charger to 7 pounds. Pressed steel and aluminum is used instead of slate and cast iron. Practically noiseless—new charging indicator—6 ampere capacity—70% efficient—automatic cutout—operates on 40% variation of cycle—60 watt consumption—points will not stick—low replacement parts cost. Regular price $18.00. Buy it from Liberty and save 12%. Satisfaction Guaranteed.

Postpaid

2B62 Apco Battery Charger **$15.75**

2B93 "B" Battery Attachment **1.0**

Ward-Leonard D.C. Bat. Charger

Is designed to charge a 6-volt battery or two 6-volt batteries in series for use only on 110-volt direct current circuits. It is a substantial device made of the very best materials and will last indefinitely. Furnished complete with cord for attaching to direct current lighting fixture. An all-night run will bring the average battery to a fully charged condition. Regular price $12.00. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

Postpaid

2B63 Ward-Leonard Charger.. **$9.75**

Homcharger

The Gold Se Homcharger is a sim ple, inexpensive an dependable rectifi for charging stora batteries at home. is practically silen Clean in operatio Charges witho mass, fuss bother. Simple has but one mo ing and tw wearing par replaceable a ter thousan of hours' use for $1.00. Beautiful mahogany and go finish. In ordering be sure to tell us the number cells in your battery (1, 2, 3, 4 or 6). Specify volta and frequency of your lighting circuit, if alternatin Give voltage only, if direct, and so state. This info mation can be secured from your nearest electrician from the Lighting Company. Buy it from Li erty and save 30%. **Satisfaction Guaranteed.**

Postpai

Regular Price

2B44.....$18.50 **$12.9**

Likes Our Quick Service

I find the Univernier dials are very good and I want to thank you for your prompt shipment. I like to buy where I know I can get quick service.—GEORGE HEIBEL, JR., TAFTVILLE, CONN.

Connectors—Voltmeters—Ammeters

Erla Solderless Connector

Every connection in radio apparatus assembly, including the difficult attachments of variocoupler taps to their respective panel contact points, is now successfully accomplished without the use of a soldering iron. Instances in which costly apparatus has been irreparably damaged through soldering heat or the spilling of solder or acid paste are too numerous to mention. Erla connections eliminate such difficulties forever, saving untold hours of trying labor, as well as the cost of a soldering iron and its accessories. Buy it from Liberty and save 10%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
3B4	Style 1, for variocoupler, 2 for	$0.10	$0.09
3B5	Style 2, for bus bar, 2 for	.08	.07
3B6	Style 3, T connection, 2 for	.08	.07
3B7	Style 4, for jack, 2 for....	.06	.05

Fahnestock Connector

This is the ideal connection because it does away with the use of solder, grips like a vise, cannot jar loose, makes a perfect electrical contact, and eliminates broken and loose connections. No tools are required—simply press down on the spring, insert the wire and let go. Takes only a few seconds. Millions are in use in radio work where perfect contact is so essential to satisfactory results. Illustrations show in full size. This is a standard article. Buy it from Liberty and save from 12 to 60%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
3B14	Size 2	$0.05	$0.03
3B10	Size 3	.05	.03
3B15	Size 3C	.05	.02
3B11	Size 10	.05	.02
3B12	Size 15	.03	.02
3B13	Size 9	.08	.07

Sterling Voltmeter

No. 34-C, 0-50 Voltmeter (1 volt division). This meter is especially designed for the testing of radio "B" batteries. It is especially calibrated for accuracy and its reading is a true indication of the condition of the battery. It is far superior to the higher priced laboratory instruments for this purpose. Do not be deceived by the fact that some batteries which test low with a Sterling voltmeter will show a higher reading when tested with a large high resistance voltmeter. A Sterling voltmeter draws just the right amount of current from the battery while the voltage is being read and so gives a much better indication of the actual condition of the battery than a high resistance instrument which permits practically no current to show. Buy it from Liberty and save 6 to 22%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
2B39	.....	$2.75	$2.15

No. 34, 0-10 Voltmeter (1/5 volt division). The correct instrument for testing "A" batteries over 3 volts.

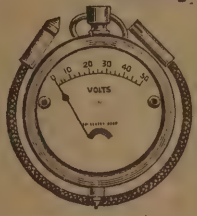
		Regular Price	Postpaid
2B40	.....	$1.75	$1.65

Sterling Ammeter

The meters described here are developments of Sterling's long familiar to the electrical public. The number of types has been increased to cover all the needs of the radio battery user for the testing of "A" and "B" batteries both dry cell and storage type. Ammeter, the correct meter to test dry cells used for "A" battery work. Invaluable to the radio enthusiast. No. 24, 0-35 Amperes (1 amp. division scale). Regular price $1.00. Buy it from Liberty and save 33%. **Satisfaction Guaranteed.**

		Postpaid
2B38	.....	$0.67

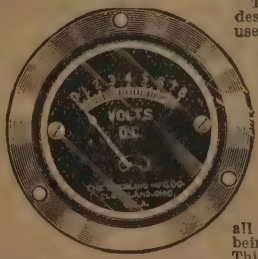
Liberty Voltmeter



A compact handy ammeter for testing the amperage of dry cells. This pocket size meter is dependable and accurately made, and may be relied upon for accurate readings. Durability is an outstanding feature of this instrument and we guarantee it. Regular price $2.00, scale reading 0 to 50 amperes. Buy it from Liberty and save 35%. **Satisfaction Guaranteed.**

		Postpaid
2B66	.....	$1.29

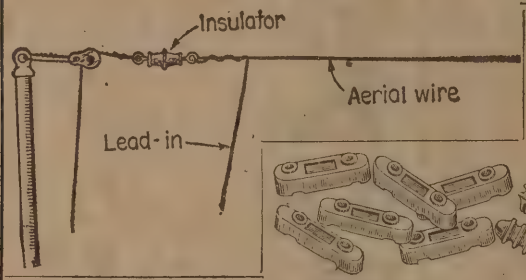
Sterling Panel Meters For Volts and Amperes



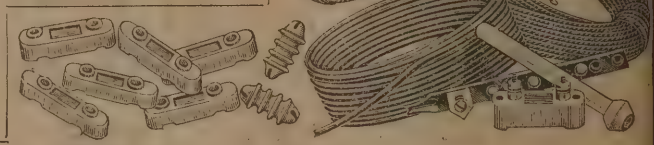
This line of meters is designed especially for use on radio receiving sets. They are unusually accurate and thoroughly reliable. The movement is of a magnetic type which has been developed through years of meter experience. They are of the flush mounted type and require a hole in the panel only 2 inches in diameter, the overall diameter of the flange being only 2¾ inches. This small size, together with the nickel plated flange and black finish metal dial makes a very attractive addition to any radio panel. Buy it from Liberty and save 23 to 26%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
2B27	D. C. Ammeter, 0-1½..	$4.00	$2.95
2B28	D. C. Ammeter, 0-3....	4.00	2.95
2B29	D. C. Ammeter, 0-5....	4.00	2.95
2B30	D. C. Ammeter, 0-10...	4.00	2.95
2B31	D. C. Milli-Ammeter, 0-250	4.00	2.95
2B32	D. C. Voltmeter, 0-8...	4.00	2.95
2B33	D. C. Voltmeter, 0-30...	4.00	2.95
2B34	D. C. Voltmeter, 0-100.	5.00	3.85

A Single Wire Aerial Is Best



Aerial Outfit



This outfit is complete with all the necessary parts for installing the aerial and ground connections to any receiving set. The parts included in each outfit have been carefully selected by our experts and we recommend each part as being especially designed and constructed for the purpose it serves. In each outfit we have included a coil of No. 18-gauge bell wire which will come in handy for connecting up your instruments. You'll find it very easy to construct an aerial from one of these complete outfits. And, too, you'll be more than pleased with the efficient aerial results and always confident in knowing that your set is protected against lightning.

The following is a list of the parts included: 100 feet of seven-strand copper aerial wire No. 22, 50 feet of weatherproof copper wire No. 14 gauge, 100 feet of insulated bell wire No. 18 gauge, 2 aerial strain insulators, 6 porcelain cleats, 1 porcelain wall tube, 1 ground clamp, 1 aerial lightning arrester. Regular price $4.00. Buy it from Liberty and save 39%. **Satisfaction Guaranteed.** **Postpaid**

1B14 ..... **$2.45**

Solid Copper Aerial Wire

The wire most generally in use for aerials is size No. 14, solid copper. There are about 85 feet to the pound. Regular price, $1.00. Buy it from Liberty and save 61%. **Satisfaction Guaranteed.** **Postpaid**

1B1 Per 100 ft. **$0.39**

7-Strand Aerial Wire

The larger the surface of the aerial wire the better, is the reception, and for this reason our 7-strand wire is very popular. Each strand is No. 22 wire. Solid copper. Will surely give you satisfaction. Buy it from Liberty and save 45 to 51%. **Satisfaction Guaranteed.** **Postpaid**

1B11 Per 100 ft.; regular price $1.25 ..... **$0.69**

1B40 Per 100 ft.; second grade, regular price $1.00 ..... .40

Ribbon Aerial

Greater distance may be had by using the woven ribbon antenna than with a single No. 14 round wire, due to the ribbon's great absorption power and flat collecting area. This ribbon is finely woven from small copper wires into a broad flat surface of one-quarter inch. It is this surface in the air that absorbs a greater amount of energy from the passing wave. Regular price $2.00. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** **Postpaid**

1B41 Per 100 feet **$1.60**

Can You Use An Indoor Aerial?

Excello Coil Antenna

Postpaid

39c

This consists of aerial wire coiled so that the space from end to end, when coiled is only 16 to 24 inches, but it can be stretched any length up to 100 feet. Its effectiveness is much greater than a straight, single wire of the same distance from end to end. Very good for indoor use and may be used also outdoors. Buy it from Liberty and save 30 to 35%. **Satisfaction Guaranteed.**

	Regular Price	Postpaid
1B16 Extends from 16 in. to 60 ft.	$0.60	**$0.39**
1B10 Extends from 16 in. to 100 ft.	1.25	.85
1B27 Extends from 24 in. to 125 ft.	1.75	1.25

Cage Antenna

This antenna is a double helix designed to give highly directional characteristics with maximum collecting area. Selectivity may be secured only with properly designed antenna. This antenna is designed to give volume with selectivity; it cuts out static and gives many times the volume of the loop antenna and brings in long distant stations loud and clear. Regular price $2.00. Buy it from Liberty and save 8%. **Satisfaction Guaranteed.** **Postpaid**

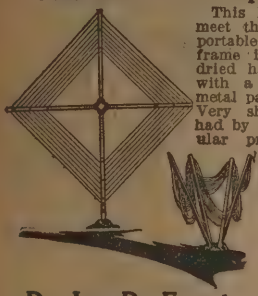
1B38 ..... **$1.85**

You Can Depend On What You Buy From Us.

A Loop Aerial Is Very Convenient

When A Powerful Set Is Used

The Ritter Collapsible Loop



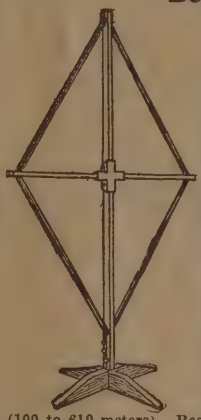
This loop was designed to meet the requirements for a portable loop antenna. The frame is constructed of kiln dried hardwood, impregnated with a Bakelite finish. All metal parts are non-magnetic. Very sharp tuning may be had by using this loop. Regular price $6.50. Buy it from Liberty and save 23%. Satisfaction Guaranteed.

Postpaid

1B31. **$4.95**

Dr. Lee De Forest, celebrated scientist and radio pioneer, says, "Probably not one in a hundred persons who go in for radio ever get tired of it. On the contrary, they are radio's biggest boosters. In five years I believe there will be 20,000,000 radio fans in the United States."

Betts & Betts Loop



This loop is ideally convenient for use at home, out in camp, on board a boat, or wherever a loop can be used. Without the use of tools it can instantly be folded and carried about in a small bag or even a coat pocket. Extended for use it is 31 inches high and 27½ in. wide. Folded it occupies a space 3¼ by 3¼ by 16 inches. The arms and pedestal are seasoned wood in mahogany finish, gracefully arranged and proportioned. Fittings are aluminum and nickel plated. An extra binding post leading to one of the intermediate turns makes it possible to use different numbers of turns. With this very desirable feature the Betts & Betts loop more efficiently covers a very wide range of wave lengths including the broadcasting limits and lower amateur lengths (100 to 610 meters). Regular price $7.00. Buy it from Liberty and save 15%. Satisfaction Guaranteed.

Postpaid

1B28 ..... **$5.95**

Make Radio Serve You

Thousands upon thousands of country people and others have gained or saved money through receiving by radio information perhaps several times a day concerning the market and latest prices. If you have been watching the market for an advance to enable you to sell at the proper moment, it is of great importance to you to know at the time that the price has gone up. Immediately you can communicate with those in the market for your product and perhaps conclude a deal giving you more profit than had you been obliged to depend, as before, on newspaper or other reports, often several days or a week old.

Socket Plugs

Indoor *Aerials*

The Antenella

Postpaid

95c

Screw it into any Electric Light Socket and attach the wire to the aerial binding post on your set. It takes the place of the unsightly outdoor aerial, uses no current, eliminates static, and is a real distance getter. Hundreds of unsolicited letters have been received from satisfied users. Ideal for apartment dwellers. Complete and inexpensive. Regular price, $1.25. Buy it from Liberty and save 25%. Satisfaction Guaranteed.

Postpaid

1B15 ..... **$0.95**

NOTE: What we say about one of these plugs applies also to the other. Both Good.

Dubilier Ducon

The Dubilier Ducon allows a radio receiving set to be connected to any electric light socket wherever that socket may be. The Ducon is simply screwed into the socket like an electric bulb. Although it is thus connected with the lighting circuit, the Ducon can be handled without shock; it seems electrically dead, and dead it is to the ordinary house current. Its terminals may be connected by a wire without the slightest danger and without causing a short circuit. When the Ducon is placed in the socket it is only necessary to connect it to the receiving set, after the other usual connections have been made. All outside wires, poles, ground switches and lightning arresters are eliminated. Regular price $1.50. Buy it from Liberty and save 20%. Satisfaction Guaranteed.

Postpaid

1B13 ..... **$1.19**

Solderall

This is a remarkable metal in paste form. Easily applied. A match will melt it. No clumsy soldering iron necessary. Results are guaranteed to equal wire or bar soldering. Insure perfect reception by soldering all radio joints and connections with Solderall. Its convenient form, its great economy appeals to everyone. Regular price $0.25. Buy it from Liberty and save 24%. Satisfaction Guaranteed.

Postpaid

17B1 ..... **$0.19**

Brach Vacuum Radio Arrester

For safety you need a lightning arrester. In case of an electrical storm and you should forget to disconnect your instrument from the aerial, serious injury might be done. This arrester will protect it. Simply place it between the ground switch and the aerial. The Brach vacuum Radio arrester is the biggest little thing in radio insurance. Every set should have it. The National Board of Fire Underwriters insists upon it. Insurance policies may be void without it. Your choice of an arrester should be guided by the 17 years' experience of leading engineers who have installed over 3,000,000 of these on railroad signal, police and fire alarm circuits. Over 750,000 in use in radio since 1913. Can be hung on aerial or lead-in wire. Has soldering lug and binding post. Non better made. Regular price $3.00. Buy it from Liberty and save 35%. **Satisfaction Guaranteed.** **Postpaid.**

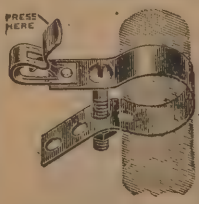
1B18 Outdoor Type..... **$1.95**

Liberty Lead-in

No need to ruin your window frames. Liberty Lead-in fits under closed windows. Covered with fireproof insulation. Fitted with Fahnestock clips. Regular price $0.50. Buy it from Liberty and save 36%. **Satisfaction Guaranteed.** **Postpaid.**

1B8..... **$0.32**

Fahnestock Ground Clamp



This is a very convenient device for attaching your ground wires to pipes without soldering. The illustration shows how easily it is attached. It is made from soft copper 5¼ inches wide with a phosphor-bronze spring binding post. Has a screw and nut attached. Made in two sizes. Size A for ¾ to 1-in. pipe, takes No. 10 B. & S. wire. Size B, for ¾ to 2-in. pipe, takes No. 8 B. & S. wire. Buy it from Liberty and save 25 to 27%. **Satisfaction Guaranteed.** **Postpaid**

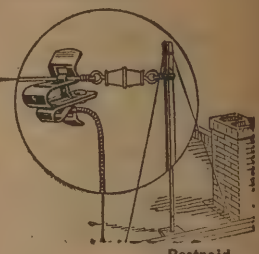
		Regular Price	
1B3	Size A.....	$0.10	**$0.08**
1B4	Size B.....	.15	.11

Liberty Ground Clamp

Plain, tinned copper, without clip. Buy it from Liberty and save 52 to 60%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
1B24	1-inch.....	$0.15	**$0.06**
1B25	2-inch.....	.20	.09
1B26	3-inch.....	.25	.12

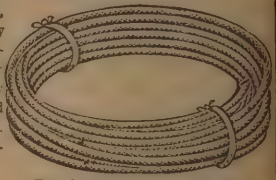
Antenna Connector



Eliminates splicing and soldering of wires. Snap the larger connector over antenna wire; insert the lead-in wire into the smaller clip and a perfect connection is the result. Made of the finest quality phosphor-bronze. Buy it from Liberty and save 20%. **Satisfaction Guaranteed.** **Postpaid.**

1B9 Antenna Connector.... **$0.12**

Rubber Covered Wire



Solid copper wire, insulated perfectly with rubber compound and cotton braid. Size 14. Buy it from Liberty and save 48 to 51%. **Satisfaction Guaranteed.**

		Regular Price	Postpaid
21B6..25 ft. only	$0.75	**$0.39**
21B9..50 ft. only	1.50	.74
21B7..100 ft. only	3.00	1.45

Lenz Ground Connection

A new departure in ground clamp construction. Made throughout of spring brass wire, so arranged that a perfect electrical connection is maintained at all times with either the gas or water pipe, which you may use for your ground connection. Snaps on to water pipe instantly without use of pliers or soldering. Provides 40 contacts. Equipped with Fahnestock Clips. Superior to the old style ground clamp. Regular price $0.15. Buy it from Liberty and save 27%. **Satisfaction Guaranteed.** **Postpaid.**

1B5..... **$0.11**

Indoor Type Vacuum Arrester

This porcelain base arrester may be used indoors without danger. A convenient place to mount it is at the top or bottom (wherever your lead-in wire enters) of the window frame as the various telephone companies mount their arresters. This arrester will not permit leakage of radio current. In mounting it must be protected from moisture. Approved by fire underwriters. Regular price $2.50. Buy it from Liberty and save 42%. **Satisfaction Guaranteed.** **Postpaid.**

1B29..... **$1.45**

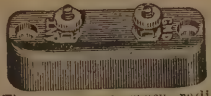
$375.00 This is what one farmer gained on one sale by having radio market reports.

Porcelain Cleats

These cleats are well made and have a highly glazed finish. Made to take two No. 10 or smaller insulated wires, giving a distance of 2½ inches between wires. Regular price $0.05. Buy it from Liberty and save 60%. Satisfaction Guaranteed. Postpaid

1B7..... **$0.02**

Storm King Arrester



The safety of every radio receiving set requires the installation of a Lightning Arrester. You can purchase a Storm King Lightning Arrester as it is an approved type, listed by the National Board of Fire Underwriters. Regular price $1.00. Buy it from Liberty and save 25%. Satisfaction Guaranteed. Postpaid

1B42..... **$0.75**

Copper Magnet Wire

Used in constructing radio instruments, such as tuning coils, variometers, variocouplers and sets. B. & S. standard gauge, strictly first quality of wire and insulation. Single and double cotton and double silk covered, and bare enameled wire. Supplied only in ¼ and ½ lb. spools. Satisfaction Guaranteed.

Single Cotton Covered

Postpaid **$0.43**

	¼ lb.	Postpaid	½ lb.	
18-Gauge	21B42..	$0.25	21B43..	
20-Gauge	21B8...	.25	21B13..	.43
22-Gauge	21B10..	.27	21B14..	.47
24-Gauge	21B11..	.32	21B15..	.53
26-Gauge	21B12..	.35	21B16..	.57

Double Cotton Covered

	¼ lb.	Postpaid	½ lb.	Postpaid
18-Gauge	21B44..	$0.27	21B45..	$0.45
20-Gauge	21B17..	.27	21B21..	.45
22-Gauge	21B18..	.32	21B22..	.50
24-Gauge	21B19..	.37	21B23..	.55
26-Gauge	21B20..	.42	21B24..	.60

Double Silk Covered

	¼ lb.	Postpaid	½ lb.	Postpaid
18-Gauge	21B46..	$0.43	21B47..	$0.71
20-Gauge	21B25..	.38	21B29..	.63
22-Gauge	21B26..	.42	21B30..	.74
24-Gauge	21B27..	.48	21B31..	.80
26-Gauge	21B28..	.53	21B32..	.86

Enameled Wire

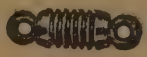
	¼ lb.	Postpaid	½ lb.	Postpaid
18-Gauge	21B48..	$0.22	21B49..	$0.40
20-Gauge	21B33..	.22	21B37..	.40
22-Gauge	21B34..	.25	21B38..	.45
24-Gauge	21B35..	.29	21B39..	.50
26-Gauge	21B36..	.32	21B40..	.55

Moulded Insulator

This is a low-priced insulator, but very excellent for the money. It is well made and strong. For use on aerials and guy wires. Made of heavy composition, well moulded and fitted with ½ inch eyelets at each end for wires. Its use adds to the efficiency of the outside aerial. Regular price, $0.20. Buy it from Liberty and save 30%. Satisfaction Guaranteed. Postpaid

1B6..... **$0.14**

Electrose Insulator



Protect your antenna from losses by using a high grade insulator. Very excellent quality as you will see, on examination. Regular price $0.60. Buy it from Liberty and save 53%. Satisfaction Guaranteed.

1B23 Strain Insulator, 4 in.

Postpaid **$0.28**

Porcelain Tube Insulator

Used to connect wires through a wall. Best made. Unglazed vitrified porcelain. Hard. Fireproof. 5/16 in. diameter inside and 9/16 in. outside. Length given is from under widest portion to other end. Regular price $0.10. Buy it from Liberty and save 40%. Satisfaction Guaranteed. Postpaid

1B20 6 inches..... **$0.06**

Porcelain Insulator

Insulator, ribbed, blue procelain, 1 in. diameter x 3 in. long. Regular price $0.20. Buy it from Liberty and save 50%. Satisfaction Guaranteed. Postpaid

1B30..... **$0.10**

Nailit Porcelain Knob Insulator

These are well made and will give good service. Includes nail. Height, 1 11/16 in.; diameter, 1½ in.; hole ⅜ in.; groove ⅜ in. Regular price $0.05. Buy it from Liberty and save 40%. Satisfaction Guaranteed. Postpaid

1B19.... **$0.03**

18 Insulated Copper Wire

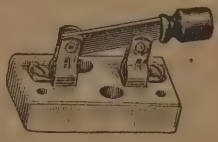
This wire is known as annunciator or bell wire. It is double cotton covered. Comes in one-half pound or 1-pound coil. 100 feet to the pound. Buy it from Liberty and save 20 to 26%. Satisfaction Guaranteed. Postpaid

21B2 ½-lb. coil; regular price $0.40 **$0.32**

21B3 1-lb. coil; regular price $0.80 .59

Aerial and Ground Switch

Illustration is of S. P. S. T.



These switches will be found very satisfactory for general radio work. Very useful for antenna and battery. Cut off switches. The base is made of porcelain, the contact blades are made of heavy copper. Buy it from Liberty and save 25%. Satisfaction Guaranteed. Postpaid

18B18 Single Pole, Single Throw..... **$0.18**

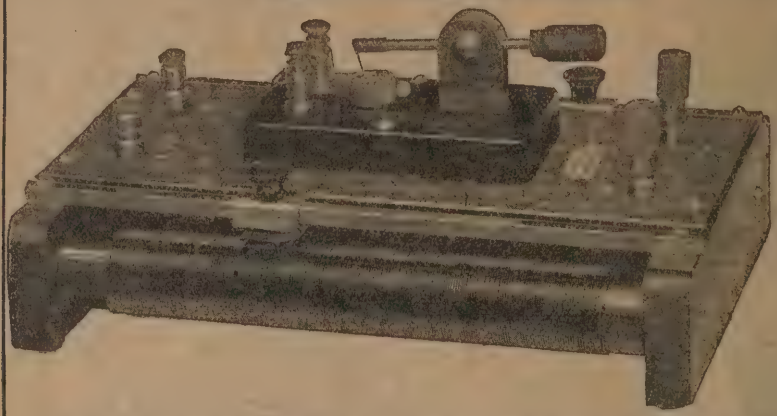
18B19 Single Pole, Double Throw.... .28

18B20 Double Pole, Single Throw..... .33

18B21 Double Pole, Double Throw.... .44

Crystal Sets and Detectors

Liberty Crystal Receiving Set



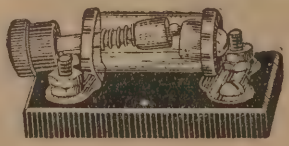
Postpaid
$3.95

The Ford of Radio. : : Ideal Short Range Set.

If you have never had experience with a crystal set, one costing even so little as we ask for the Liberty, you surely will be surprised with the result. Music and speech come in with perfect clearness and loud if you are a short distance from the broadcasting station. An objection is that you cannot receive more than a few miles (up to perhaps 15 or 25, sometimes more). Also if you are equally distant from stations of the same or nearly the same wave-length, you cannot tune out those you do not wish to hear. You thus hear the loudest one and sometimes you hear another station at the same time. Generally the interference does not bother you. These objections do not appear in the use of our D. K. Vacuum Tube Set, the parts of which cost complete only a small amount, as you can see in our offer elsewhere, and we strongly urge you to choose it if you wish a low priced receiver. For those within 20 miles or so of a broadcasting station there is nothing better or more economical than an efficient crystal set, which requires no batteries to operate it. Equal to any crystal set made. Our Radio Crystal Receiving Set is very efficient, producing a clear, loud tone, is simple to operate, compact and very handsomely finished. It is the double slide tuner type equipped with a well made detector with a universal joint adjustment and very sensitive crystal. It has binding posts for attachment of antenna and ground wires, and special binding posts to take four sets of head phones—a feature not usually found on crystal sets. All you need in addition to the set as illustrated above are a pair of head phones and simple aerial outfit. Regular price $6.00. Buy it from Liberty and save 34%. **Satisfaction Guaranteed.**

Postpaid
14B1 ..... $3.95

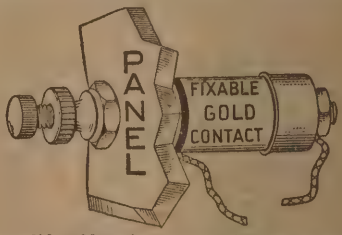
Harco Permanent Detector



The Harco Permanent Detector represents the latest development in this field of Radio equipment. All of the advantages of the best mineral detectors are made use of. The pressure contact insures a constant sensitive surface action that is not affected by jar, dirt, or oxidation. The use of a double mineral or equivalent produces long life and maximum sensitivity. Use the Permanent Detector as you would the best crystal obtainable and compare results. Buy it from Liberty and save 16%. Satisfaction Guaranteed.

		Regular Price	Postpaid
9B15	Type 4	$1.25	**$1.10**
9B16	Type 5	1.00	.84

Variotector (Crystal Detector)



The solid gold spring contact will not corrode or rust, absorb vibrations, and gives two or more points of contact. The Variotector is especially designed with its accompanying nut-and-bolt cup for mounting back of the panel in tube sets as its front screw allows the necessary adjustment for reflex circuits. It also fits the standard cup of our crystal set. Regular price $1.50. Buy it from Liberty and save 15%. **Satisfaction Guaranteed.**

Postpaid
9B19 ..... $1.28

When you receive your first order of goods from us, the quality, together with the low price and our courteous treatment, will convince you no one could do better for you.

We want you for a friend and will try to merit your friendship.

You get real satisfaction in dealing with Liberty. Send a trial order and see.

Erla Fixed Crystal Detector or Rectifier

Unequalled efficiency, together with absolute stability in reflex work, is assured through the Erla fixed crystal rectifier, antiquating costly vacuum tubes for detector purposes. Maximum volume and purity of tone are achieved with complete absence of distortion, and parasitic noises. Also, no adjustment is required, and it is proof against disturbance through jolt or jar. The solid gold, non-oxidizing contact point maintains indefinitely original qualities of reception. Once installed, no further attention is required. Regular price $1.00. Buy it from Liberty Postpaid, and save 16%. Satisfaction Guaranteed.

9B1 ..... **$0.84**

We are organized to give you the best service you can get anywhere.

Tin, Copper and Aluminum Foil

Norman brand which is the best make and certain to please you. Used back of panel to prevent body capacity. Satisfaction Guaranteed.

		Postpaid
Tin Foil		
17B2	Size 6 x 10...	**$0.10**
17B3	Size 6 x 12...	.15
17B4	Size 6 x 14...	.20
17B5	Size 6 x 18...	.25
17B6	Size 6 x 24...	.30
Copper Foil		
17B7	Size 6 x 10...	**$0.12**
17B8	Size 6 x 12...	.18
17B9	Size 6 x 14...	.24
17B10	Size 6 x 18...	.30
17B11	Size 6 x 24...	.35
Aluminum Foil		
17B12	Size 6 x 10...	**$0.15**
17B13	Size 6 x 12...	.20
17B14	Size 6 x 14...	.25
17B15	Size 6 x 18...	.35
17B16	Size 6 x 24...	.40

Likes Our Quick Service

I find the Univernier dials are very good and I want to thank you for your prompt shipment. I like to buy where I know I can get quick service. — George Heibel, Jr., Taftville, Conn.

Rusonite Radio Crystal

In selecting the Rusonite you are certain to get a crystal that will please you. There are hundreds of thousands of satisfied users. The entire surface is sensitive. Synthetic, and does not have any dead spots as in ordinary minerals. Buy it from Liberty and save 16%. Satisfaction Guaranteed.

	Regular Price	Postpaid
9B13	$0.50	**$0.42**

Electric Soldering Iron

Postpaid **$1.75**

Regular Price $2.50

A carefully made iron, 12½ inches long, wood handle, copper point 1 inch long, ½ inch diameter, set in a black iron shaft reinforced 4 inches from where copper point is inserted. Cord 57 in. long with screw plug which fits any electric light socket, D. C. or A. C. current. Each iron is accompanied by a stick of flux 2½ in. long and a piece of solder wire 6 in. long. Regular price $2.50. Buy it from Liberty and save 30%. Satisfaction Guaranteed. Postpaid.

17B17 .. **$1.75**

Pyratek Fixed Detector

There has been a long felt want for a good fixed crystal detector (requiring no adjustment whatsoever) that may be relied upon to respond to weak stations (distant stations) at all times and under varied conditions. This detector meets all the above requirements. It is simple and foolproof and we recommend it for either a crystal circuit or a reflex circuit. Made for panel or baseboard mounting. Requires no adjustment and gives utmost sensitive reception and maximum rectification. Especially designed to meet the requirements of reflex work. Absolutely guaranteed.

		Postpaid.
9B20	For mounting on panel; regular price $1.25.....	**$1.10**
9B21	For mounting on baseboard; reg. price $2.00.....	1.85

Buy or make up a Radio Receiving Set and delight your family.

Dubilier Du-Tec (Crystal)

What all users of crystal radio receiving sets have been looking for—a chemical radio rectifier to replace natural crystals. Advantages: Every point sensitive. Remains constant. Does not oxidize or age from exposure. Eliminates tedious and frequent adjustment of cat-whisker. Mounted in cup ready for operation. Satisfaction Guaranteed. Postpaid.

9B17 ..... **$0.30**

Tripletone Solid Gold Cat-Whisker

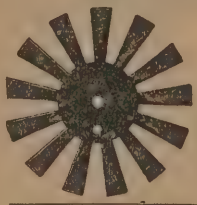
This is a very superior kind of cat-whisker because it is made of solid gold and therefore is rustless and non-corrosive. It will last longer and give better service all the time than the common kind. The conductivity is of the very highest as you will see if you use it. Regular price $0.30. Buy it from Liberty Postpaid, and save 20%. Satisfaction Guaranteed.

9B3 ..... **$0.24**

Sets Help Shut-Ins

A radio prescription is putting S. R. Helms, of Monroe, N. C., back on his feet after an invalidism of over fourteen months. Writing to WGY recently, he said: "I am one patient that an M.D. prescribed a radio outfit for and it was the greatest prescription he ever made, as it has done me more good than specialists and sanatoriums. I sincerely wish that every shut-in could have a radio set."

Spiderweb Coil Form



A fibre coil form, made to standard dimensions for the Turney or Reinartz coils. Exceptionally durable. Regular price $0.25. Buy it from Liberty and save 40%. Satisfaction Guaranteed. Postpaid

6B26.... **$0.15**

Connecting Clip

For connecting lead wires to storage battery terminals giving a positive method of contact, particularly suited for battery charging. Jaws open sufficiently wide to attach to average size terminal. Made of everlasting special metal with extra strong spring. Very handy for testing purposes. Regular price $0.08. Buy it from Liberty and save 50%. Satisfaction Guaranteed. Postpaid

3B9..... **$0.04**

Varnished Cambric Spaghetti Tubing

This material is an absolute necessity in constructing apparatus. Is the best quality available, the high insulation and low di-electric loss strongly recommend it for use as insulation for bare wires in construction of sets. Consists of a tube which slips on over the wire. For wire up to No. 14. Comes in lengths of about 24 inches. Regular price $0.30 per length. Buy it from Liberty and save 50%. Satisfaction Guaranteed. Postpaid

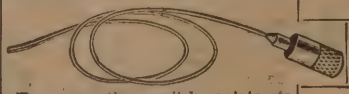
21B41..... **$0.15**

Bus Bar Wire

There is no better wire for connecting the different parts in assembling a set. While it is stiff, it is easily bent into the shape desired. It has a surface which takes solder readily and is very neat in appearance. It is hard drawn copper and finished in tin and in gold. 14 gauge. Buy it from Liberty and save 17 to 30%. Satisfaction Guaranteed.

		Postpaid
21B4	Tinned finish, 12 2-ft. lengths; regular price $0.30.	**$0.25**
21B5	Gold finish, 1 2-ft. length; reg. price $0.10	.07

Pig Tail Connections



For connecting switch points to coupler; has a special socket that will fit 6/32 in. switch point stems. Satisfaction Guaranteed. Postpaid

3B1 8-inch..... **$0.05**

Copper Lugs

A copper soldering lug, very handy to make connections in wiring a radio set; also for clamping and soldering to connecting wire. Fits screw 3/16 inch in thickness. Regular price $0.10. Buy it from Liberty and save 50%. Satisfaction Guaranteed. Postpaid

3B8 Per doz.... **$0.05**

Binding Posts

Made of brass, polished nickel finish. Lengths given are from top of knob to bottom of shoulder. Single connection complete with screw and washer. Buy from Liberty and save 37 to 40%. Satisfaction Guaranteed.

		Regular Price	Postpaid
3B20	Length 10/16 in.	$0.05	**$0.03**
3B21	Length 13/16 in.	.08	.05

Made of plain black moulded composition top, brass polished, nickel finish shoulder, complete with screw and washer.

		Regular Price	Postpaid
3B22	Length 8/16 in.	$0.20	$0.12

Binding Posts

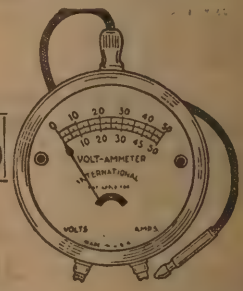
It will pay you, in time and trouble saved, to buy this latest design in binding posts. They are well made, of a size easily handled, the tops do not come off, at the same time leaving sufficient room to make connections quickly. The base being heavily knurled prevents post turning. Contact surfaces unusually large assure positive contact. Back moulded insulated tips, polished nickel stud and nut, stem 6-32 in diameter by 5/8 in. long. Buy it from Liberty and save 20 to 25%. Satisfaction Guaranteed.

		Regular Price	Postpaid
3B16	Top plain.....	$0.20	**$0.15**
3B17	Top engraved, Antenna	.20	.16
3B18	Top engraved, Ground	.20	.16
3B19	Top engraved, Phone	.20	.16

Would You Like Help—

in deciding which set to buy or make? Tell us what you would like to accomplish and about how much you think of spending and we will try to assist you.

International Meter



A high grade, neat pocket type instrument for testing voltage of "B" batteries that can be relied on. They are finely made, the case is of brass nickel plated and highly polished. Has a range of 0 to 50 volts. We guarantee their accuracy. Diameter 2¼ inches. No. 60 is a combination volt and ammeter. Important: These are "dead-beat" meters, setting instantaneously and stopping without vibrating. Buy it from Liberty and save 25%. Satisfaction Guaranteed. Postpaid

2B91 No. 50; reg. price $1.25 **$0.90**

2B92 No. 60; reg. price $1.50 1.09

Would You Like To Receive Our Beautiful

JEWELRY CATALOG?

A Copy Will Be Sent To You Free On Your Request

It contains 24 large pages, 3 of which show illustrations in three colors, 11 in two colors and 6 in one color. It is a very fine book.

But what is more important is this:

All High Quality

There are 11 pages of offers of solid gold and 3 pages of gold-filled articles, and 3 pages of offers of silver articles.

No plated goods, nothing cheap.

Everything is guaranteed to be perfectly satisfactory and to give you long service.

You will see just what you want for your own use or for gifts for birthday, holiday or other purposes.

265 Beautiful Articles

35	Rings
47	Bar and Scarf Pins
7	Brooches
13	Bracelets
8	Necklaces
15	Lockets and Chains
35	Emblem Charms and Pins
22	Cuff Links
11	Watches
9	Watch Chains
4	Fountain Pens
8	Pocket Knives
51	Miscellaneous
265	

Everything at reduced prices.

What Is Better as a Gift?

Perhaps there is someone near and dear to you who would be delighted to receive from you such a **perfect** remembrance as an article of jewelry of the lasting kind—a sweetheart, mother, father, son, daughter, friend? And how much wiser to give some article of personal adornment which lasts a lifetime and brings up constantly pleasant thoughts for the giver, instead of something which may perish in perhaps a few hours and the **memory** of it almost as quickly?

Good jewelry of the kind we offer you is always in good form.

You Run No Risk

Our liberal policy of complete satisfaction or money refunded applies to all departments of our business and any article of Jewelry or anything else will be sent on approval without any money in advance.

Shall We Send You The Catalog

It's yours for the asking. We shall look for your request.

Here Is Something New — Up To The Minute — In

PICTURES

You can now have the pleasure which comes from the possession of genuine oil paintings without having to pay for oil paintings.

In a special catalog which we shall be glad to send you we offer you your choice of pictures made from original oil paintings and reproduced so carefully your admiring friends will believe them to be originals!

You know we must be speaking of something not known to the general public — something new, something not offered before. We are not referring to ordinary prints such as you see everywhere. We are referring to something those in your neighborhood have never seen.

Surprise Your Friends

When your visitors come they will see on the walls of your rooms pictures which are different from any they have ever known. They will see raised places and depressions just as in the original as made by the artist's brush. They will see canvas marks. They will see the slightly glazed surface like that made on the original by the varnish. They will see what seems to them an original oil painting worth a good deal of money, but the cost to you may be only a couple of dollars or possibly three or four dollars. Perhaps they will see several which cost you less than two dollars each. All framed. Maybe the owner of the original oil painting from which some of these reproductions were made, paid five, ten, twenty-five or even fifty thousand dollars for it! And yours looks so nearly like it (except for size) that even art experts could hardly see the difference.

There are in the collection several pictures you and members of your family or friends will want. You will delight in getting them and showing them and perhaps giving them as presents to others who love beautiful, artistic things. There are small pictures, medium sizes and larger sizes, and the prices will please you.

On Approval

We shall be greatly pleased to send one or more on approval. If you are not fully pleased, we will take them back and the examination will not cost you anything.

We are inaugurating a new era in art by bringing fine art pictures to the people at popular prices. Will you show your interest in this worthy effort by doing just this——

Send For Picture Catalog Today

It is free and you are not obligated to buy.

APPROVAL BLANK

Customer, please do not write in this space.

DATE.....No.....

LIBERTY MAIL ORDER HOUSE

106 LIBERTY STREET, NEW YORK

All members of one family should order under one name—it prevents confusion.

Mr., Mrs. or Miss	First Name	Middle Initial	Last Name—Write Plainly

Please give **Street Address** or **Route and Box**, on each order. It helps keep records of your orders together.

Street and No.	R. F. D.	Box No.

Post Office	State

If to be sent by Express or Freight, Please Give **Shipping Point** with State and County if **Different** from P. O.

Shipping Point	County	State

IF YOU ARE REMITTING, PLEASE SAY HOW

- Post Office Money Order ☐
- Express Money Order ☐
- Cash by Registered Mail ☐
- Bank Draft ☐
- Certified Check ☐
- ☐

Always Try to Remit by P. O. Money Order.

IF YOU ARE SENDING PAYMENT AND POSTAGE, and desire us to ship by PARCEL POST, please mark. . . . . ☐

IF YOU ARE NOT SENDING PAYMENT with this order and desire us to ship by EXPRESS C. O. D. please mark . . . . . ☐

If you wish to examine the goods at your express office before acceptance and before paying us any money, please mark . . . . . ☐

If you wish us to ship by PARCEL POST C. O. D., please mark. (Note: the Post Office Department does not allow examination before acceptance) . . ☐

QUANTITY	Name of Each Article Wanted	CATALOG NUMBER (Make Plain Figures)	SIZE, Etc.	TOTAL	
			Amount of Goods		
			Amount Enclosed for Goods		

PLEASE USE SHARP PENCIL

Satisfaction or Money Back

ORDER AND SEE HOW WELL WE TREAT YOU

A 38x28 inch WALL MAP OF THE UNITED STATES FREE

Will you do your friends and us a favor? Whether you send us an order or not, will you please give us the names of your friends and acquaintances, **no matter where they live,** who you believe are or soon may be in the market for a radio receiving set or parts with which to make one. We will offer to send them our catalog and will not mention your name. Your sending us their names does not obligate you in any way.

In return for your sending us ten or more of **the best names you know,** we will send you postpaid and free of charge a large 38x28 inch wall map of the United States. Every home needs a wall map and in addition to the general usefulness of this one, it contains the names and locations of all the Radio Broadcasting Stations in the country **and much other information** about radio.

NAME (Please use sharp pencil) Please select names carefully Don't send useless names	FULL ADDRESS (*Please use sharp peneil*) Street, R. F. D., etc.	P. O.	State
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Send to—NAME **LOCAL ADDRESS** **P. O. and STATE**

Shall We Send You **Our Jewelry Catalog?** ..... **Our Picture Catalog?** .....

Satisfaction guaranteed by LIBERTY MAIL ORDER HOUSE, 106 Liberty St., New York

APPROVAL BLANK

Customer, please do not write in this space.

DATE.....No.....

LIBERTY MAIL ORDER HOUSE

106 LIBERTY STREET, NEW YORK

All members of one family should order under one name—it prevents confusion.

Mr., Mrs. or Miss	First Name	Middle Initial	Last Name—Write Plainly

Please give Street Address or Route and Box, on each order. It helps keep records of your orders together.

Street and No.	R. F. D.	Box No.

Post Office	State

If to be sent by Express or Freight, Please Give Shipping Point with State and County if Different from P. O.

Shipping Point	County	State

IF YOU ARE REMITTING, PLEASE SAY HOW

Post Office Money Order ☐ Express Money Order ☐

Cash by Registered Mail ☐ Bank Draft ☐

Certified Check ☐ ☐

Always Try to Remit by P. O. Money Order.

IF YOU ARE SENDING PAYMENT AND POSTAGE, and desire us to ship by PARCEL POST, please mark . . . . . ☐

IF YOU ARE NOT SENDING PAYMENT with this order and desire us to ship by EXPRESS C. O. D. please mark . . . . . ☐

If you wish to examine the goods at your express office before acceptance and before paying us any money, please mark . . . . . ☐

If you wish us to ship by PARCEL POST C. O. D. please mark. (Note: the Post Office Departmen does not allow examination before acceptance) . ☐

QUANTITY	Name of Each Article Wanted	CATALOG NUMBER (Make Plain Figures)	SIZE, Etc.	TOTAL	
			Amount of Goods		
			Amount Enclosed for Goods		

PLEASE USE SHARP PENCIL

Satisfaction or Money Back

ORDER AND SEE HOW WELL WE TREAT YOU

I Want to Know---

How long have you been in the radio business?
Since the beginning of radio broadcasting.

What is the size of your business?
There are only several concerns in the United States doing a larger retail radio business than we.

How large a stock have you?
The largest in New York.

What grade of goods do you handle?
Standard, reliable, well-known, advertised brands in nearly all instances. We offer nothing except what experience proves will give good service and satisfaction. We are obligated to take back anything which is unsatisfactory. Such transactions would not only be profitless, but expensive to us. Consequently it is better for us to send out good goods in the first place. This we do.

If your goods are the kind you claim, how can you sell at cut prices and make a profit?
The volume of our purchases and sales is very large. Our policy is to sell at small profit and make many sales. Instead of keeping all the dealers' profit for ourselves we divide it with you.

What experience has your management had in selling by mail to consumers?
Twenty-five years.

What have you to say about your reliability?
We refer you to the Corn Exchange Bank, Terminal Branch, and Bank of the Manhattan Company, Rockaway Park Branch, New York, each of which has a capital of $10,000,000.00.

How can I be sure of satisfaction in dealing with you?
We know we cannot build up a very large radio mail order business in your community without rendering good service and pleasing you so you will speak well of us to your friends and neighbors. **It would be foolish for us to treat you in any but an absolutely fair way.** We ship subject to examination when requested. Read our Guarantee which we live up to in letter and spirit.

Do you sell on the instalment plan?
No. To do so would compel us to greatly raise our prices to cover losses and damages from bad accounts and extra expense of doing business. Customers who prefer not to invest the full amount for a set at one time find it profitable to borrow the necessary money and make the big saving our low prices makes possible.

How quickly do you ship?
Ninety per cent. of orders are shipped the day of receipt. Some take a little longer.

Who pays the transportation on shipments?
We do on all shipments to points within the United States. Please remember this in comparing prices.

Do you answer questions?
Yes; please see page 47.

How many broadcasting stations are there and where located, who owns them and what do the programs consist of?
This is answered on pages 15 to 21.

Who pays for the music, entertainment and other matter broadcast?
Please see page 15.

What benefit might I receive from the use of a radio set?
See first part of this catalog.

What distance shall I be able to hear with a radio set?
This is answered on page 15.

How many can hear at one time without a loud speaker?
Please see offers of Erla, Murdock and Danstrom plugs on page 70.

What distance shall I be able to receive with a Tube Receiver?
No one, not even a radio expert can tell you in advance just how far you might be able to receive with any set from your location, and **this is why we do not guarantee that you will receive everything up to a certain number of miles.** The reason is that some things in radio are yet unknown to the scientists, and there are some invisible differences in various parts of the country which affect reception. **We do guarantee, however, that any radio set you get from us will prove perfectly satisfactory to you,** which means that it positively will receive loud and clear and pleasant to you, broadcasting from stations in your part of the country—50, 100, possibly 500 or even 1,000 or more miles from you. **However, receiving from a great distance is not of so much importance as to be able to hear the programs within 100 or several hundred miles, which are so numerous as to supply a family with all the entertainment for which they would have time.**

Can one without knowledge of radio or electricity assemble and operate a radio set satisfactorily?
You can, with our directions, which are as plain as day. You would hardly agree that you are not as smart as the tens of thousands of men and boys inexperienced in radio who have done this very thing, would you? But remember always: We are here to help you.

Does one require an electric light circuit to operate a radio receiver?
No. You can get long distance sets from us which get the operating current from one common door-bell battery.

What will it cost me to examine a radio set or other goods before having to lay out any money?
A 2-cent stamp. We will ship by express, subject to examination, if requested, anywhere in the United States. Unless pleased you do not need to accept. We guarantee satisfaction in your dealings with us.

What good reason is there why I should not own a radio receiving set?
None, if all the facts are considered.

Remember, this is "The Radio House of Friendly Service." This is where those who want the best treatment belong.

Air Mail Service

For Speed

The transcontinental air service offers the splendid advantage of quickest mail communication to those of our friends who are near the air route between San Francisco and New York. Even those far from the air route will save one or more days, as the railroad will carry your letter to airplane mail junction point.

The time from coast to coast is 34 hours and 45 minutes.

The postage rate is 8 cents for each of the three airplane mail zones, San Francisco to Cheyenne, thence to Chicago and then to New York.

Your postmaster will give you more information.

BROADCASTING STATION LOG

You will find it interesting to keep a record of the stations you hear.

If you record the place on each dial where you have the best reception, you should be able to get the station again at about the same place. There are certain atmospheric changes which affect this, so be prepared for some variation, no matter which set you may have.

STATIONS			ADJUSTMENTS		
Call Letters	LOCATION	Wave Length	First Dial	Second Dial	Third Dial

Our Fair Way of Dealing

IT IS EASY TO DO BUSINESS WITH US.

EVERY ARTICLE AND TRANSACTION GUARANTEED to be satisfactory.
QUICK SHIPMENT.
GOODS SUBJECT TO EXAMINATION before acceptance if desired.
WE PAY TRANSPORTATION to any P. O. or shipping point in the United States.
NO MONEY IN ADVANCE (unless you prefer to send with order).
LETTERS ANSWERED QUICKLY AND INTELLIGENTLY.
RADIO QUESTIONS ANSWERED FREE and without obligation.

Satisfaction Or Money Back

Our Guarantee

We guarantee to please you in all your transactions with us. If you so instruct us, we will ship you any article by express, subject to examination, so you may examine it before acceptance or payment. If you order complete parts to make a radio set, we will send you instructions so simple any one can readily assemble them. If you have any difficulty and will tell us what it is, we will help you, free. Further, we will allow you to return anything you buy from us which is unsatisfactory, and will give you other goods in their place or refund your money, provided what you wish to return has not been damaged while in your possession, and is returned to us safely packed.

We Pay Transportation

by Parcel Post or Express on all shipments within the United States, excepting that we reserve the right to ship storage batteries by freight where Parcel Post or Express charges would be excessive. If wanted by express, we will allow on the expressage an amount equal to the freight.

Our References

As to our reliability, we refer you to the Corn Exchange Bank, Terminal Branch, whose capital is $10,000,000.00, and the Bank of Manhattan Company, Rockaway Park Branch, capital $10,000,000.00, both of New York City, for the financial standing of the Liberty Radio Company, 106 Liberty Street, New York City, which owns the Liberty Mail Order House. Together we are doing a business at the rate of over $1,000,000 00 a year. It pays to deal with a large, successful house.

No Money In Advance

We will ship any goods on approval—no money in advance. All you need to do is to fill in our Approval Blank if you have one, or tell us on a sheet of paper just which articles you want and say you desire to examine them at your express office before paying any money and we will instruct the express agent to show you this courtesy. **If you are pleased, you pay him for the shipment** and the small transportation and collection charges and take it away. **If you are not pleased,** you need not accept the shipment and you will be under no obligation to us. **If you accept the shipment and are not satisfied** with the goods we will take them back and refund your money promptly. Everything we sell is sold on a **Satisfaction-or-money-back Guarantee.** You run no risk in dealing with the **Liberty Mail Order House.**

But please remit with your order if possible. There is more labor in shipping C.O.D. and collecting than when payment is sent with order. We want to keep all expenses down to enable us to charge you the lowest possible price for everything. Also you have to pay a collection fee when you pay the express agent or postman, and you may as well save this. If you are not satisfied your money will be refunded.

Good Service

You can depend on good, prompt, honest, Golden-Rule service. We want to earn and keep your good will, so you and your friends will order from us everything you need in radio, and we know we cannot do it without satisfying you.

This business is managed by men who have had many years of experience in doing business by mail with consumers. They know how to please mail order customers. They are pleasing others, and they will please **you.**

Free Examination, No Deposit Required

Anything you may select from this catalog will be sent on free examination, by express. It will not cost you one cent to see the article of your choice. We ask no deposit. You run no risk. We take all the risk of pleasing you. You do not need to lay out a penny in payment for anything you do not accept. Can you imagine a safer proposition for you or any reason why you should not deal with a house which does business in this liberal Golden-Rule way?

How To Remit Money To Us

In sending us money as in payment in advance for merchandise, please use **Post Office Money Order** or **Express Money Order** or **Certified Check.** If you send currency, send by **Registered Mail.**

A Money Order is the best as there is a written record by the issuing office which serves as a protection to both you and ourselves.

We do not assume any responsibility for currency not registered.

Let Us Become Acquainted

It will benefit both you and us.

To establish and maintain pleasant and permanent business relations with you we will do anything necessary to satisfy you.

We have satisfied many thousands of customers. We think we have learned the way to treat you, so you will enjoy dealing with us and be as well satisfied as the others.

When you receive your first order of goods from us, the quality, together with the low price and our courteous treatment, will convince you no one could do better for you.

We want you for a friend and will try to merit your friendship.

You get real satisfaction in dealing with Liberty.

A "Get-Acquainted" Order

Perhaps you have never had any dealings with us. Before entrusting us with a large order you may prefer to give a smaller one. We want all of your orders, for we know this is the best place for you to buy. But send along some kind of an order so we may become acquainted with you and you **become acquainted with us** and the high quality of our merchandise, low prices and courteous treatment. We will look for it.

We Could Not Afford To Displease A Customer

Perhaps you do not realize fully the cash value to us of a satisfied customer and what we should lose if we displeased one.

The business of a mail order house in a community increases or decreases according to its reputation for honesty, fair dealing, the value of its goods, prices, character of its service and courtesy. No one likes to deal and he will not deal where he is not likely to get a bargain and where courtesy will not be accorded him. Discourteous treatment, high prices, poor merchandise and any wrong dealings are discussed among neighbors and soon the reputation of the house is damaged greatly.

So it is our policy to prevent this by not giving a customer anywhere any cause to say anything ill of us. This gives you the best possible assurance that you will get from us the kind of value and treatment that will impel you to speak kindly of us if at all. Is this not exactly the way you would do if you were in our place?

The Golden Rule In Business

It would be pretty hard for any one to improve on the "Do-unto-others-as-you-would-have-them-do-unto-you" policy of dealing with people.

If you feel you would like to deal with a "Golden Rule" house, here it is. We are waiting for your first order and the chance to treat you so well you will come back again for more.

By following this rule, which we do because it is right and it gives us pleasure to deal fairly and squarely with our fellow man, and consequently pleasing and making lasting friends and permanent customers of many thousands of good people.

The Value Of Your Influence

You have many friends in your own community and in many other communities. Frequently, or at least once in a while, you meet them and talk with them, or perhaps if you do not see them you write occasionally. It is but natural for all of us to talk about the things which interest us the most. We talk about what we are doing. What we are enjoying. What we plan to do. Perhaps what we have bought. And we like to brag about any good bargains we may have made.

The best advertising this house can possibly get is that which you give us when talking with your friends. If we send you a radio set or other goods which do not please you we could hardly expect you to keep it a secret from the members of your family and other persons with whom you come into contact. If in any way we did not treat you fairly and squarely, about the surest thing is that it would be only a day or so or a few days or a week until a number of persons with whom you come into contact should learn something unfavorable concerning us from you or some member of your family. That would hurt us. It would certainly be poor policy not to treat you right.

When You Are Through With This Book—

Of course, we hope you will use this catalog by ordering a set or parts or accessories now, and ordering again and again as often as you need something, and we will watch for your orders and give them the best of attention. But if for any reason it does not suit you to order now, will you be so kind as to let someone else see this book, if you can do it without inconvenience? The first part will be interesting reading to some who have not yet realized what a wonderful thing radio is and how easy they may benefit from it. Both we and they will appreciate your kindness.

We are satisfying others-
Will you give us the chance to satisfy you?

You will find many testimonials in this book which have been written by customers, showing that what we say about our goods and our service is correct, and indicating that you will be pleased equally well. May we have the chance?

Would You Like Your Questions Answered?

We have radio experts whose business is to help you, no matter what your radio problem may be.

The only thing then that stands between us and helping you in this way is your telling us what you wish to know.

If you are thinking of buying a set or parts for a set, and are in doubt what to get, please give us an idea of what you wish to accomplish or about the amount of money you had thought of investing.

The plainer you are in explaining what you want, the better chance we have to render you a service. So write us a letter right now and tell us and we will do our best to help you.

(Please See Also Page 47)

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To One Who Should
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Dear Friend:

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For RADIO IS SWEEPING THE NATION LIKE WILDFIRE, the whole country is aflame with it, and one by one, day and day, people in rural and urban communities by the thousands are getting their sets so they may be as up-to-date as present radio "fans". It won't be long until every home has one. You may as well get yours now and be using it.

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John A. Rhea

General Manager.

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